

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CHECK LIST-RECORDS RECEIVED AND WELL STATUS

OPERATOR Southern Calif. Gas Co.

WELL DESIGNATION: "Standard Sesnon" 10

API No. 03700040

SEC 29 , T. 3N , R. 16W , SB B. and M.

COUNTY: Los Angeles

FIELD Aliso Canyon

Type of Notice: Rework

Date: 7/31/2012

Report Number: P212-263

**RECORDS RECEIVED (ATTACH PAGES IF REQUIRED)**

**NEW STATUS**

	Date	OK	NEED	Remarks
Well Summary (OG100)				
History (OG103)	12-11-12	✓		
E-Log				
Mud Log				
Dipmeter				
Directional				
Core and/or SWS				
<u>SEE LOG REBAT</u>		✓		

DATE: \_\_\_\_\_

**NOTICE OF RECORDS DUE**

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

**WELL STATUS INQUIRY**

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

**Well Stat**

Change Required: No

Change Done: \_\_\_\_\_

**ABANDONMENTS/REABANDONMENTS/DRILLS/REDRILLS**

ABANDONMENT DATABASE : \_\_\_\_\_ SURFACE INSPECTION NEEDED \_\_\_\_\_ COMPLETED \_\_\_\_\_

*Date and Inspector*

FINAL LETTER NEEDED \_\_\_\_\_ COMPLETED \_\_\_\_\_ DRILL/REDRILL DATABASE \_\_\_\_\_

*(Date)*

**ENGINEER'S CHECK LIST**

T-REPORT(S) \_\_\_\_\_ OPERATOR'S NAME \_\_\_\_\_ WELL DESIGNATION \_\_\_\_\_ SIGNATURE \_\_\_\_\_

LOCATION \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONFIDENTIAL RELEASE DATE: \_\_\_\_\_ PERMIT REQUIREMENTS MET \_\_\_\_\_

**CLERICAL CHECK LIST**

LOCATION CHANGE (OG165) \_\_\_\_\_ ELEVATION CHANGE (OG165) \_\_\_\_\_ RELEASE OF BOND (OG150) \_\_\_\_\_

**REMARKS**

RECORDS SCANNED: 2-27-2013

*(Date)*

RECORDS APPROVED: 2-27-2013 DA

*(Date and Engineer)*

AOR Database \_\_\_\_\_

## HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company  
Well: Standard Sesnon 10  
A.P.I. No. 03700040

Field: Aliso Canyon  
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.  
Todd Van de Putte Title: Senior Storage Field...

County: Los Angeles

(President, Secretary, or Agent)

Date: 12/10/2012

Signature: 

(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during re-drilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, balling tests, and initial production data.

Start Date	Ops: DOGGR Rpt
9/6/2012	Opened the well with 2500 psig surface pressure on the tubing and the casing. Rigged up and pumped 30 bbl hi-vis polymer displaced (Discovered the tubing plug in place). Rigged up the Western wire line unit, ran in the well and attempted to pull the prong. Sheared off of the prong, rigged down the Western Wireline unit and shut in the well.
9/7/2012	Rigged up an Onyx well test separator and associated piping. Rigged up the Western wire line unit. Ran in the well with a GS pulling tool and pulled the prong. Ran in the well and pulled the plug body. Rigged up and pumped 119 bbls, 9 ppg NaCl brine (tubing volume) and killed the well per schedule with 219 bbls of 9 ppg brine. Secured the well.
9/10/2012	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 40 bbl of 9 ppg NaCl brine. Nipped down the production tree and nipped up a Class III 5M BOPE with riser spool. Changed the pipe rams to 3-1/2". Rigged up the WEA test pump. Tested the blind rams to 300 psig (low) and 5000 psig (high) for twenty minutes. Tested the pipe rams to 300 psig (low) and 5000 psig (high) for twenty minutes. Tested the Hydril annular preventer to 300 psig (low) and 3500 psig (high) for twenty minutes. Tested all the control valves and the choke manifold to 300 psig (low) and 5000 psig (high) for twenty minutes. (All BOPE tests good ) DOGGR Ventura waived the inspection of installed BOPE. Secured the well.
9/11/2012	Filled the well with 34 bbls of NaCl brine. Changed the pipe rams to 4-1/2". Backed out the hold down studs. Unlanded the completion string at 90,000# and released from the packer. Laid down the tubing hanger and pumped open the Baker TR-5 SSSV. Rigged up the casing tongs, pulled out of the well and laid down (14) joints of 3-1/2", 9.3# N-80 tubing and the SSSV. Pulled out of the well and laid down (95) joints of 4-1/2", 11.6#, N-80 casing to a 4100' kill string. Secured the well.
9/12/2012	Opened the well and filled the well with 50 bbl of 9 ppg NaCl brine. Pulled out of the well and laid down (95) joints of 4-1/2", 11.6#, N-80 casing, a GLMA, a Sliding sleeve, a no/go and (4) joints of 3-1/2", 9.3, N-80 tubing. Rigged down the casing tongs and rigged up the 3-1/2" drill pipe tongs. Moved in the pipe wrangler and set in the 3-1/2", 13.3#, S-135 drill pipe. Measured and picked up (70) joints of 3-1/2", 13.3#, S-135 drill pipe. Secured the well.
9/13/2012	Repaired the drill pipe tongs and the hydraulic system. Filled the well with 25 bbl of 9 ppg NaCl brine. Pulled out of the well with a kill string. Made up a spear, a bumper sub, a set of jars, (2) 4-3/4" drill collars and ran in the well. Measured and picked up 3-1/2" drill pipe to the top of the fish (Pengo Casing Patch) at 4500'. Engaged the fish and jarred loose at 100,000lb. Pulled out of the well to 4000' and secured the well.
9/14/2012	Filled the well with 25 bbl of 9 ppg NaCl brine. Pulled out of the well laid down the fish (recovered the top cone of the Pengo patch). Made up a spear, a 38' extension, a bumper sub, a set of jars, (2) 4-3/4" drill collars, and intensifier. Ran in the well engaged the casing patch and jarred free. Pulled out of the well and laid down a 40' section of the Pengo casing patch. Ran in the well with a kill string to 2700' and secured the well.
9/17/2012	Opened the well and filled well with 27 bbl of 9 ppg NaCl brine. Pulled the kill string out of the well. Made up a spear, a bumper sub, a set of jars, and (2) 4-3/4" drill collars. Ran in the well, engaged the casing patch and jarred free. Pulled out of the well (with drag) and laid the down the remaining 1' and bottom cone of the Pengo Casing patch. Made up a 7" casing scraper, ran in the well to 3000' and secured the well.
9/18/2012	Pumped 25 bbl of 9 ppg NaCl brine to fill the well. Measured and picked up 3-1/2", 13.3#, S-135 drill pipe to the top of the packer at 7945'. Pulled out of the well and laid down the casing scraper. Ran in the well with a kill string to 2400' and secured the well.
9/19/2012	Filled the well with 100 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Nipped up a shooting flange and rigged up the Schlumberger wireline unit and associated equipment. Made up the USIT tools with gamma ray and neutron. Ran in the hole with the USIT tools and tagged at 7928'. Logged with the USIT tools to 1500'. Repaired the stranded wire line (Could not keep hole full of brine). Pulled out of the well and rigged down the Schlumberger wireline unit. Ran in the well with a kill string to 2500' and secured the well.
9/20/2012	Removed and restrung the drilling line from 6 to 8 lines. Opened the well and filled the well with 245 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up an Otis/HES seal assembly, ran in the well to 7000' and secured the well.

## HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company  
Well: Standard Sesnon 10  
A.P.I. No. 03700040

Field: Aliso Canyon  
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.  
Todd Van de Putte Title: Senior Storage Field...

County: Los Angeles

(President, Secretary, or Agent)

Date: 12/10/2012

Signature: 

(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-701-3339

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Start Date	Ops. DOGGR Rpt
9/21/2012	Filled the well with 25 bbl of 9 ppg NaCl brine. Ran in the well to 7931'. Rigged up and pumped 40 bbls hi-vis polymer and displaced with 58 bbl of 9 ppg NaCl brine. Ran in the well to the Otis permanent packer at 7951'. Engaged packer with the seal assembly and pressure tested the drill pipe/casing annulus to 1000 psig surface pressure for twenty minutes. Released the seals from the packer and pulled out of the well to a kill string at 2800' and secured the well.
9/24/2012	Filled the well with 23 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up an 6.306" OD string mill, a 6" lead collar, a 6.306" OD string mill, and (2) 4-3/4" drill collars. The mills would not pass through the wellhead area. Laid down the top mill and ran in the well to 70'. The BHA stopped and attempted to work it through the casing. Laid down both mills and sent in to the shop to be reduced to a 6.241" OD drift. Rigged up the Schlumberger wireline unit and associated equipment. Made up the USIT tools with neutron and gamma ray. Logged from 2500' to the surface. Rigged down and moved out the Schlumberger wireline unit. Ran in the well with a kill string to 2500' and secured the well.
9/25/2012	Filled the well with 8 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up a 7" test packer and ran in the well to 2311' and set the packer. Pressure tested the drill pipe/casing annulus to 2300 psig surface pressure for twenty minutes (pressure fell 600 psig in twenty minutes). Released the test packer and pulled to 2270', set the test packer and pressure tested the drill pipe/casing annulus to 2300 psig (pressure fell 800 psig in twenty minutes). Released the test packer, pulled out of the well and laid down the 7" test packer. Made up a 6.241" OD string mill, (1) jt of 3-1/2" drill pipe, a 6.241" OD string mill and (2) 4-3/4" drill collars. Ran in the well to 2227', picked up the power swivel and reamed down to 2353'. Laid down the power swivel and secured the well.
9/26/2012	Filled the well with 8.6 bbl of 9 ppg NaCl brine. Ran in the well to 4411' and rigged up the power swivel. Ran the mill assembly through the production casing from 4411' to 4505'. Rigged down the power swivel and pulled out of the well with the milling gauge assembly. Laid down the milling assembly and made up a 7" bridge plug. Ran in the well to 2353', set the bridge plug and pressure tested the drill pipe/casing annulus to 1000 psig. Pulled out of the well with the bridge plug running tool. Filled the well and pressure tested the drill pipe/casing annulus to 2300 psig for twenty minutes (pressure held). Ran in the well, released the 7" bridge plug, pulled up to 2500' for a kill string and secured the well.
9/27/2012	Filled the well with 8 bbl of 9 ppg NaCl brine. Pulled out of the well and laid down the 7" bridge plug. Rigged up the casing tongs and made up 60' of the WEA Metalskin casing patch with seals. Made up the Metalskin running tools and rigged down the casing tongs. Ran in the well with the WEA Metalskin casing patch to 4524'. Rigged up and pressured to 4500 psig to shift the running tool and pulled through with 140,000lb to set the anchor, patch and seals from 4524' to 4462'. Pulled up the hole to 4300' with the Metalskin running tools and secured the well.
9/28/2012	Opened the well and filled casing with 9 bbl of 9 ppg brine. Pulled out of the well and layed down the Metalskin running tools. Made up a Otis seal assembly, a no/go with plug in place, and the on/off tool. Ran in the well to 7851', engaged the seals in the Otis packer and released from the on/off tool. Pressure tested the tubing/casing annulus to 1650 psig surface pressure for twenty minutes. Pulled out of the well to 2500' for a kill string and secured the well.
10/1/2012	Opened the well with the hole standing full of brine. Pulled out of the well and rigged down the working floor. Nipped down the Class III 5M BOPE. Nipped down the tubing head (obtained fire permit and cut rusted wellhead bolts). Installed the new primary wellhead seals and nipped up the Class III 5M BOPE. Secured the well.
10/4/2012	Nipped down the Class III 5M BOPE and nipped up the refurbished tubing head. Pressure tested the primary and PS seals to 5000 psig for twenty minutes (pressure held). Nipped up the Class III 5M BOPE and rigged up the working floor and the tubing equipment. Ran in the well with the 3-1/2" drill pipe to 7922' and secured the well.
10/5/2012	Opened the well with the hole standing full of NaCal brine. Laid down and loaded 265 joints of 3-1/2", 13.3#, S-135 drill pipe and secured the well.
10/8/2012	Changed the pipe rams to 4-1/2". Rigged up the WEA casing tongs with the JAM unit. Measured and picked up the bottom half of the on/off tool, (1) jt of 3-1/2", 9.3#, L-80 tubing, a 2.85" X nipple, (1) jt of 3-1/2", 9.3#, L-80 tubing, a WEA sliding sleeve, (1) jt of 3-1/2", 9.3# L-80 tubing, a GLMA, (1) jt 3-1/2" tubing crossover 3-1/2" X 4-1/2". Measured and picked up the 4-1/2" casing to 3600' with seal lube on all connections. Secured the well.

## HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company  
 Well: Standard Sesnon 10  
 A.P.I. No. 03700040

Field: Aliso Canyon County: Los Angeles  
 Surface Location: Sec. 29 T 3N R 16W S.B.B.M.  
 Todd Van de Putte Title: Senior Storage Field...

(President, Secretary, or Agent)

Date: 12/10/2012

Signature: 

(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-701-3339

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Start Date	Ops: DOGGR Rpt
10/9/2012	Measured and picked up (185) jts 4-1/2" LT&C casing making up with WEA JAM unit with seal lube on all connections. (A total of 2351' of yellow band 4-1/2", 11.6#, N-80 LT&C and 4938' of new 4-1/2", 11.6#, L-80 LT&C casing ran. All 4-1/2" casing Seal Lubed). Crossed over to 3-1/2" tubing made up the WEA Optimax SSSV at 592' and banded the control line. Spaced out the well and landed the completion string in the tubing hanger with 15,000lb compression. Rigged down the casing tongs and secured the well.
10/10/2012	Well was standing full of 9 ppg NaCl brine. Rigged up and pressure tested the tubing/casing annulus to 1000 psig surface pressure for twenty minutes. Rigged down the working floor, nipped down the Class III 5M BOPE and nipped up the production tree (All new wellhead valves installed on the tree and tubing head). Rigged up the Western wireline unit. Ran in the well with the wireline tools and opened the sliding sleeve. Pumped down the annulus, closed the SSSV and pressure tested to 1000 psig for twenty minutes (all tests good). Rigged down the hoist, rigged down the associated rig equipment and secured the well.

**Division of Oil, Gas, and Geothermal Resources  
 District 2-Ventura  
 Log Report**

**Operator Southern Calif. Gas Co.**

**Well Designation: Standard Sesnon**

**10**

**API Number: 03700040      Sec. 29    T. 3N    R. 16W SB**

<i>Date Run</i>	<i>Type</i>	<i>Depth from</i>	<i>Depth to</i>
5/18/1947	Electric Log	823	6999
5/30/1947	Electric Log	6999	8358
6/2/1947	Electric Log	8358	8598
6/19/1947	Electric Log	8512	8872
1/13/2006	Gamma Ray-Neutron Log	7002	8805
12/29/1962	Induction Log	8117	9333
1/3/1963	Neutron	8000	9277
12/8/1978	Neutron	600	5500
11/20/1992	Noise and Temperature Survey	0	0
11/12/1993	Noise and Temperature Survey	0	0
12/29/1962	Sonic Log	8117	9330
9/21/1994	Temperature	0	0
9/4/1995	Temperature	0	0
7/8/1996	Temperature	0	0
7/10/1997	Temperature	0	0
10/7/1997	Temperature	0	0
11/9/1999	Temperature	0	0
6/3/2010	Temperature	0	0
9/19/2012	Ultrasonic Imaging Tool Gamma Ray Neutron ✓	1550	7919
9/24/2012	Ultrasonic Imaging Tool Gamma Ray Neutron ✓	33	7923



NATURAL RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. P 212-263

**PERMIT TO CONDUCT WELL OPERATIONS**

**Gas Storage**

<u>010</u>	<u>010</u>
(Old) Field Code	(New)
<u>00</u>	<u>00</u>
(Old) Area Code	(New)
<u>30</u>	<u>30</u>
(Old) Pool Code	(New)

James D. Mansdorfer, Agent  
Southern California Gas Co.  
9400 Oakdale Ave.  
Chatsworth CA 91313

Ventura, California  
August 21, 2012

Your proposal to **rework** well "**Standard Sesnon**" 10, A.P.I. No. 037-00040, Section 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Sesnon-Frew Pools, Los Angeles County, dated 08/1/12, received 08/1/12 has been examined in conjunction with records filed in this office.

**THE PROPOSAL IS APPROVED PROVIDED:**

1. Blowout prevention equipment, as defined by this Division's publication No. MO7, shall be installed on the 7" casing and maintained in operating condition and meet the following minimum requirements:  
Class III 5M
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. No program changes are made without Division approval.
4. **THIS DIVISION SHALL BE NOTIFIED TO:**
  - a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.

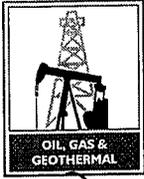
Engineer: Steve Fields

Phone: (805) 654-4761

Tim Kustic  
State Oil and Gas Supervisor  
By [Signature]  
Bruce H. Hesson, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.

010  
020  
030  
Sesnon  
Fren



NATURAL RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Farms	
	OGD114	OGD221
1000 000	111 ✓	115 ✓

**NOTICE OF INTENTION TO REWORK / REDRILL WELL**

Detailed instructions can be found at: [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

P212-263

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework  / redrill  well "Standard Sesnon" 10, API No. 037-00040

Sec. 29, T. 3N, R. 16W, S.B. B.&M., Aliso Canyon Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

13-3/8" 54.5#, J-55 at 823' (cemented to surface)  
7", 23# (J-55/N-80), 26# and 29# N-80 at 8115' Casing Patch from 4474'-4516'  
5", 18# N-80 liner from 7976'-9323' perforated from 8626'-8639', 8648'-8679', 8706'-8737', 8742'-8758', 8767'-8775', 8777'-8784', 8786'-8798', 8817'-8844', 9043'-9078', 9148'-9152', 9175'-9204' w/4 - 0.5" hpf  
PBTB = 8900'

GS

The total depth is: 9336' feet. The effective depth is: 8900' feet.

Present completion zone(s): Sesnon (Storage) Anticipated completion zone(s): Same

Present zone pressure: variable psi. Anticipated/existing new zone pressure: Same psi.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes  No

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? Yes  No  If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

- (See Attached Program)
- Nipple Up 5M Class III BOPE
- Pull the 3-1/2" x 4-1/2" completion string
- Remove the existing 7" casing patch/scrape casing/Run USIT log
- Run a new 7" casing patch and test
- Run completion string and test / Nipple down BOPE

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If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: \_\_\_\_\_ feet and \_\_\_\_\_ feet Estimated true vertical depth: \_\_\_\_\_

Will the Field and/or Area change? Yes  No  If yes, specify New Field: \_\_\_\_\_ New Area: \_\_\_\_\_

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator Southern California Gas Company		
Address 9400 Oakdale Ave.	City/State Chatsworth, CA	Zip Code 91313
Name of Person Filing Notice Todd Van de Putte	Telephone Number: 661-305-5387	Signature <i>Todd R. Van de Putte</i>
Individual to contact for technical questions: Todd Van de Putte	Telephone Number: 661-305-5387	Date 7-31-2012
		E-Mail Address: tvandeputte@semprautilities.com

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

## INFORMATION FOR COMPLIANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT OF 1970 (CEQA)

If an environmental document has been prepared by the lead agency, submit a copy of the *Notice of Determination* or *Notice of Exemption* with this notice. Please note that a CEQA determination by a local jurisdiction, if required, must be complete, or the Division may not issue a permit.

### CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

- (1) 300 feet of the following:
  - (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
  - (B) Any airport runway.
- (2) 100 feet of the following:
  - (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
  - (B) Any navigable body of water or watercourse perennially covered by water;
  - (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
  - (D) Any officially recognized wildlife preserve.

### WELL OPERATIONS REQUIRING BONDING

1. Drilling, re-drilling, or deepening any well.
2. Milling out or removing a casing or liner.
3. Running and cementing casing or tubing.
4. Running and cementing liners and inner liners.
5. Perforating casing in a previously unperforated interval for production, injection, testing, observation, or cementing purposes.
6. Drilling out any type of permanent plug.
7. Reentering an abandoned well having no bond.

This form may be printed from the DOGGR website at [www.conservation.ca.gov/dog/](http://www.conservation.ca.gov/dog/)

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**DIV. OF OIL, GAS &  
Geothermal Resources**  
Ventura

# WORKOVER PROGRAM

## Standard Sesnon 10 – Casing Patch Installation

**RECEIVED**

**DATE:** July 31, 2012  
**OPERATOR:** Southern California Gas Company  
**FIELD:** Aliso Canyon  
**WELL:** Standard Sesnon 10  
**CONTRACTOR:** Ensign #321  
**OBJECTIVE:** Install a new 7" Metalskin casing patch and install the new 3-1/2"x 4-1/2" tubing string.  
**API NUMBER:** 037-00040  
**ELEVATION:** All measurements from the original KB = 7' above GL.

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Div. of Oil, Gas &  
Geothermal Resources  
Ventura

### PRESENT WELLBORE CONDITIONS:

0' - 823'	13-3/8"	54.5#	J-55	Surface casing
0' - 3656'	7"	23#	J-55	Production Casing(cemented)-: Pengo Patch from 4474'-4516' / Window at 8115'
3656'-5346'		23#	N-80	
5346'-6977'		26#	N-80	
6977'-8115'		29#	N-80	
7976' - 9323'	5"	18#	N-80	Liner (cemented), Perforated w/4-1/2" jspf, 8626'-8639', 8648'-8679', 8706'-8737', 8742'-8758', 8767'-8775', 8777'-8784', 8786'-8798', 8817'-8844', 9043'-9078', 9148'-9152', 9175'-9204'. Cement from 8900'-9110', 9278'-9323' PBD= 8900'

(See attached Schematic and Well Data Sheet for Additional Wellbore Details)

**TOP OF ZONES:** (S-1): 8543'MD/8537' TVD / (S-4): 8610'MD/8604'TVD

**FIELD PRESSURE:** 2700 psig (surface)

**Notes:** BOP requirements in 224.05 should be fully implemented. Class III 5M (minimum) requirements should be followed. Field reservoir inventory and pressures should be monitored during the workover with a 300 psig minimum overbalance on well control fluids.

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Venture**

**WELL WORK PROGRAM**

**Pre Rig Work:**

1. De-energize and remove laterals. Install companion flanges for killing well.
2. Move in pump with tank, shaker and mixer. The rig crew to provide the labor for re-killing the well and installing the kill equipment.
3. Spot the 500 bbl Baker tanks and fill with 8.6 ppg KCl brine.
  - 3.1. Treat the kill fluids with biocide, 5 gal/100 barrels concentration.
  - 3.2. Connect the rig pump to the tubing and vent the casing through the choke manifold to the Gas Company system.
  - 3.3. Verify the current field pressure and confirm the correct weight of kill fluid.
4. Re-kill well and circulate the well with 8.6 ppg KCl brine
5. All the annulus valves should be bled of all pressure and standing full of brine before proceeding with the rig work.
6. NOTE: Tubing/completion string contains a Baker Model T5 SSSV.

**Rig Work:**

1. Move in the production rig with the rig pump and mud pit.
2. Install BPV. Remove the tree and install a 11" Class III – 5M BOPE (minimum) as per Gas Company Procedure on the 9" tubing head (with crossovers).
  - 2.1. Fit the 5M BOPE with 3-1/2" pipe rams and CSO.
  - 2.2. The 5M BOPE must have connection and valve below the blind rams. Fit with 5000 psig minimum rated valve.
3. Test the 5M BOPE system to assure the integrity of connections.
  - 3.1. Test the pipe rams and blind rams to 5000 psig. Test the Annular Preventer to 3500 psig for 15 minutes.
  - 3.2. Perform a low pressure test of the pipe rams, blind rams and annular preventer to 300 psig for 15 minutes.
  - 3.3. Notify the DOGGR prior to the BOPE test and chart both high and low pressure BOP tests.
4. Install a pup joint of 3-1/2" tubing in the 9" x 3-1/2" tubing hanger with a Safety valve in the top. Back out the tubing hanger pins and unland the 3-1/2"x 4-1/2" tubing string.
  - 4.1. The completion string has a Baker T5 SSSV installed at 472' MD. Once the SSSV is removed, send the Baker SSSV into Baker for a rebuild.
5. Straight pull release from the 7" Otis Permatrieve PW packer seals at 7950' MD.
6. Pull out of the well slowly, checking for drag with the 3-1/2"x 4-1/2" tubing string and lay down the 3-1/2"x 4-1/2" tubing and associated completion equipment. Note: Change the pipe rams to 4-1/2", prior to the removal of the 4-1/2" section of the tubing string.

7. Lay down 3-1/2"x 4-1/2" completion string and pick up 2-7/8" tubing to complete a workstring.
8. Rig up the fishing tools and remove the Pengo casing patch from the 7" production casing from 4474'- 4516'.
  - 8.1. Lay down the Pengo casing patch and the associated fishing tools.
9. Pick up and run a 7" casing scraper and run in the hole to 7940'(+/-). Pull out of the hole and lay down the 7" casing scraper. Circulate the hole clean.
10. Pick up a set of Otis seals, a test packer on 2-7/8" tubing and run in the hole. Land the seals in the production packer and pressure test the production packer to 1000 psig surface pressure.
11. Rig up a shooting flange/lubricator and run a USIT inspection log in the cemented 7" production casing from 7940' (+/-) to surface to indentify the cement bond behind the 7" casing and the condition of the 7" production casing.
12. Rig up equipment to install the 7" Metalskin type patch in the 7" production casing across the 4474'-4516' MD interval per the Weatherford recommended installation procedure. Pressure test the casing patch to 500 psig for 15 minutes.
  - 12.1. NOTE: If the permanent production packer did not pressure test, then install the Metalskin receptacle patch just above the production packer set at 7950' and prior to installing the patch across the bad 7" casing from 4474'-4516'.
13. Pick up and run a 7" retrievable bridge plug to 3500' (+/-). Set bridge plug and pressure test to 1000 psig.
14. Nipple down the Class III 5M BOPE and replace the pack off and the wellhead primary seals.
  - 14.1. Send in the 5M tubing head and seal flange to the shop for seal replacement/refurbishment. Install a crossover spool and reinstall the Class III 5M BOPE. Function test the BOPE.
15. Once the tubing head and the seal flange are refurbished and returned to the wellsite, remove the Class III 5M BOPE, and reinstall the seal flange, the tubing head and test all the seals to 5000 psig. Nipple up the BOPE and function test the BOPE.
16. Run in the hole with the retrieving tools and remove the 7" retrievable bridge plug.
17. Run tubing and accessories as follows and space out as required (Note: if the Metalskin receptacle patch was installed above the permanent packer the completion string below will be modified):
  - 17.1. 1 – Guide Shoe
  - 17.2. 1 – set of set of Permatrieve seal units
  - 17.3. 1 – cross over to the slot locator
  - 17.4. 1jt – 3-1/2" L-80 tubing
  - 17.5. 1 – 3-1/2" XN no go nipple

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- 17.6. 1 – 3-1/2” HES Sliding Sleeve
  - 17.7. 8jts – 3-1/2” L-80 tubing
  - 17.8. 1jt – 3-1/2” L-80 pup jt.
  - 17.9. 1 - 3-1/2”, GLM w/ 1-1/2” RA Latch
  - 17.10. 1 – 3-1/2” pup joint
  - 17.11. 1jt – 3-1/2”, L-80 tubing
  - 17.12. 1 – 3-1/2” x 4-1/2” crossover.
  - 17.13. 183 jts – 4-1/2” 11.6#, L-80 (white band)/11.6#, N-80 (yellow band)
  - 17.14. 1 - 3-1/2” x 4-1/2” crossover
  - 17.15. 15 jts – 3-1/2, L-80 tubing
  - 17.16. 1 Baker T5 SSSV (Set at 472’ MD (+/-))
  - 17.17. 1 – 3-1/2” L-80 tubing and pup jts (as required for spacing)
  - 17.18. 1 - 3-1/2” x 8” AJO Tubing Hanger
  - 17.19. Run tubing stretch calculation to verify landing weight.
  - 17.20. Pressure test the tubing/casing annulus to confirm integrity of packer and seals to 500 psig for 10 minutes.
- 
18. Install the BPV and remove the 11”, Class III 5M BOPE. Install the tree and test to 5000 psig. Remove the BPV.
19. Clean the pits, the location and properly dispose of any well work fluids.

**Post Rig Work:**

1. Unload the well and close the sliding sleeve.
2. Place well on tubing withdrawal to clean up water from completion interval. Clean up the location.

Todd Van de Putte

**STANDARD SESNON 10**

**ALISO CANYON**

**Surface Casing:**

13-3/8", 55# J55  
0' - 823'

**Production Casing:**

7"  
0' - 3656' 23# J55  
3656' - 5346' 23# N80  
5346' - 6977' 26# N80  
6977' - 8115' 29# N80  
(Top of window at 8115')

**Casing Patch**

4474' - 4516' (5.500" ID)

**7" Otis PW**

packer at 7950'

**Liner:**

5" 18# CS Hydril  
7976' - 9323'

**Perfs: 4 spf 1/2" (1973)**

8626'-8639', 8648'- 8679'

**Perfs: 4 spf 1/2" (1970)**

8706'-8737', 8742'-8758',

8767'-8775', 8777'-8784',

8786'-8798'

**Perfs: 4 spf 1/2" (1969)**

8817'-8844'

**Perfs: 4 spf 1/2" (1963)**

9043'-9078', 9148'-9152',

9175'-9204': (ineff.)

Cement plug: 8900' - 9110'

9278' - 9323'

TD at 9336'

468' Baker Model T5 SCSSV

**Tubing**

0' - 472' (3-1/2" 9.3# N80 8rd EUE)  
472' - 7805' (4-1/2" 11.6# N80 8rd EUE)  
7805' - 7956' (3-1/2" 9.3# N80 8rd EUE)

7842' -KBUG GLM w/ 1.0" latch

7882' Otis XD Sliding Sleeve (2.750")

7916' Otis XN Nipple (2.750" bore, 2.635" nogo)

7951' Otis J- latch and seal units (2)

7956' Otis guide shoe

Top of cement at 8900'

**Elevation (GRD):** 2626' ASL  
**Elevation (KB):** 2633' ASL  
**Elevation (KB):** 7' AGL  
**Status:** Injection/Withdrawal  
**Flow Regime:** Tubing Flow  
**Surface Loc.:** 750' S and 6100' W from station 84  
**Bottomhole Loc.:** At 9336" MD (9290' TVD), wellbore is 263'N and 19' W of surface location.

**4/20/47 - 6/22/47:** Well drilled and completed.

**10/31/55 - 11/20/55:** Scab cemented S6 and S8 zones for segregation (8615'-8671', 8695'-8734')

**10/29/62 - 1/24/63:** Abandoned Sesnon zone and redrilled well from 8115' to Frew zone; milled section in 7" casing from 8115' - 8145', drilled a 6" hole to 9336', ran 5" liner from 7976' - 9323', perforated various intervals from 9043' to 9204'.

**7/14/69 - 10/22/69:** Bridged off Frew zone and perforated lower Sesnon zone; set cement-plug from 9110' to 8900', perforated 8817'- 8844'.

**11/11/69 - 7/17/70:** Perforated various intervals from 8706' to 8798'

**4/13/73 - 4/26/73:** Converted to gas storage. Cleaned out to 8880'. Perforated four 1/2" jsfpf 8626'-8639', 8648'-8798'

**8/19/77 - 9/17/77:** Cleaned out to 8900', pressure tested casing and ran tubing with SSSV.

**12/14/78 - 12/27/78:** Set casing patch across hole at 4492'. Changed SSSV to 2-1/2"

**11/23/94 - 12/9/94:** Converted well from casing flow to tubing flow. Installed SCSSV and ran large diameter tubing string.

**Well Volume**

	Cu. Ft.	Bbl
Tubing	670	119
Casing	1213	216
Csg/Lnr	98	17
<b>Total</b>	<b>1981</b>	<b>352</b>

**Zone Tops**

MP	8310'	(8309')
S1	8543'	(8537')
S4	8610'	(8604')
S6	8643'	(8636')
S8	8710'	(8699')

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Drilling: D. N. [Signature] 5/18/95  
Petroleum: [Signature] 6/13/95  
Region: [Signature] 6/14/95

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**Div. of Oil, Gas & Geothermal Resources**

WELL: SS-10  
FIELD: SEENON

STATUS: Tub Flow  
DATE: 12-8-194

TUBING PROFILE



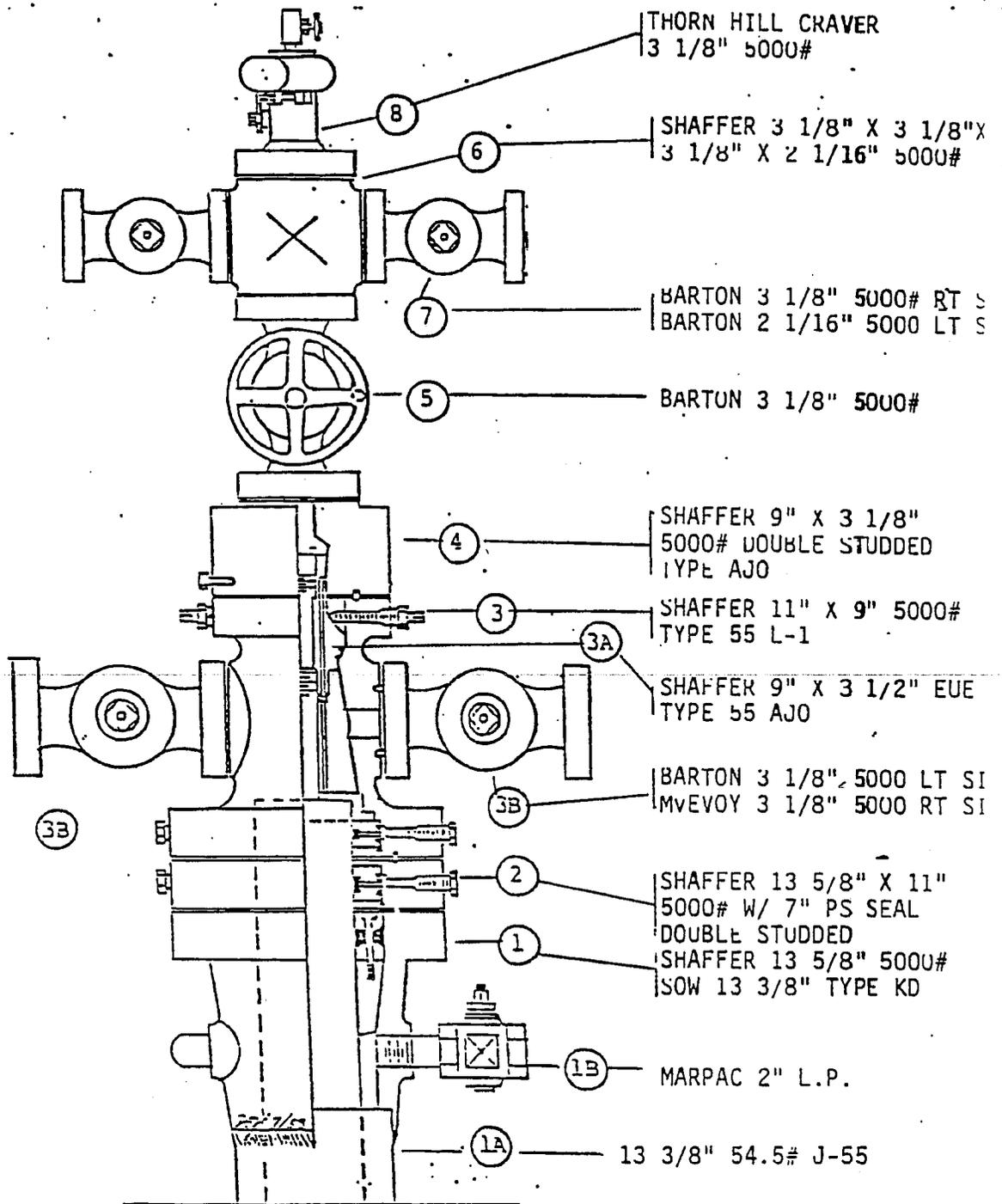
ITEM #	TUBING DETAIL	I. D.	O. D.	LENGTH	DEPTH
	SIZE	3 1/2	4 1/2	3 1/2	
	WEIGHT	9.3 #	11.6 #	2.2 #	
	GRADE	N-80	N-80	N-80	
	THREAD	646	LTC	646	
	DEPTH	462	7805	2949	
1.	K.B.	-	-	2.00	2.00
2.	Ground To Hang RR.	-	-	5.00	12.00
3.	Donut 3 1/2" 8RD	2.867	-	.55	12.55
4.	3 1/2" Pup JT. 8RD 646	2.867	4.500	1.39	13.94
5.	3 1/2" Pup JT. 8RD 646	2.867	4.500	2.32	16.26
6.	14 JTS. 3 1/2" 9.3" Tubing	2.867	4.500	44.193	468.19
7.	3 1/2" Pup JT. 8RD 646	2.867	4.500	4.11	462.30
8.	3 1/2" Baker T-5 SF. Valve	2.813	4.500	5.46	467.76
9.	3 1/2" Pup JT. 8RD 646	2.867	4.500	4.11	471.87
10.	X-OVER 3 1/2 8RD X 4 1/2 LTC	2.867	4.500	1.54	473.41
11.	190 JTS. 4 1/2 11.6" LTC	4.000	5.000	733.170	7805.17
12.	X-OVER 4 1/2 LTC X 3 1/2 8RD	2.867	5.000	1.66	7806.83
13.	1-JT. 3 1/2" 9.3" Tubing	2.867	4.500	31.46	7838.29
14.	3 1/2" Pup JT. 8RD 646	2.867	4.500	4.11	7842.40
15.	3 1/2" BST (K846) GAS	2.867	5.320	6.44	7848.84
	LIFT MANDREL W/L	-	-	-	-
	Dummy Valve on M-Latch	-	-	-	-
16.	3 1/2" Pup JT. 8RD 646	2.867	4.500	1.73	7850.57
17.	1-JT. 3 1/2" 9.3" Tubing	2.867	4.500	31.60	7882.17
18.	2.25" X D" Sliding S/B Valve	2.750	4.500	3.60	7885.77
19.	3 1/2" Pup JT. 8RD 646	2.867	4.500	.98	7886.75
20.	1-JT. 3 1/2" 9.3" Tubing	2.867	4.500	28.85	7915.60
21.	2.635 X N No-60 Nipple	2.635	4.500	1.45	7917.05
22.	1-JT. 3 1/2" 9.3" Tubing	2.867	4.500	31.45	7948.50
23.	X-OVER 3 1/2 8RD X 2 1/2 8RD	2.441	4.500	1.10	7949.60
24.	J-Latch Assy (Above)	2.347	4.000	.40	7950.00
	J-Latch Assy (on pkr)	-	-	.73	7950.73
25.	SBR L UNITS -2-	2.347	2.250	2.00	7952.73
26.	Production Tube	2.347	3.200	2.95	7955.68
27.	45° Guide Shoe	2.347	3.200	.53	7956.21
A	7" 23-29" PW" packer				
	W/L SBC. 7950				
	UP WT. 94,000 #				
	DN WT. 90,000 #				
	Tubing Land ED W/				
	10,000 # on pkr.				

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Div. of Oil, Gas & Geothermal Resources

TYPE IV



Well Name: SS-10

Mfgr: SHAFFER

Date Prepared: 12/1/94

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Ventura

WELLHEAD DESCRIPTION TYPE IV

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Div. of Oil, Gas &  
Geothermal Resources  
Venture

Well No: SS-10

Field: ALISO CANYON

Date Prepared: 12/1/94

Wellhead Mfr: SHAFFER

1. Casing Head SHAFFER Size 13 5/8" 5000# X SOW 13 3/8" TYPE "KD"  
     Slips & Pack-off 13 5/8" X 7" TYPE "KD"  
     A. Surface Csg Size 13 3/8" Wt 54.5# Grade J-55  
     B. Casing Head Valve MARPAC Size 2" L.P. Fig \_\_\_\_\_
2. Seal Flange SHAFFER Size 13 5/8" X 11" 5000# DOUBLE STUDDED  
     Type Seal 7" "PS" Ring BOTTOM BX-160 & TOP RX-54
3. Tubing Head SHAFFER Type Seal 7" "PS"  
     Size 11" X 9" 5000# TYPE 55 L1 Outlets 3 1/8" 5000#  
     Sec.Seal 7" T-PS Valve Thrd 2 1/2" L.P. Ring Type Btm RX-54 Top RX-50  
     A. Tubing Hanger SHAFFER Size 9" X 3 1/2" EUE 8 RD Bore 2.992  
         Type AJO Thread 3 1/2" EUE 8 RD  
     B.P.B. Size & Thrd SHAFFER 3 1/2"  
         BARTON LEFT SIDE  
     B. Tubing Head Valves McEVoy RIGHT SIDE Size 3 1/8" 5000#  
     C. Automatic Csg Valve N/A Size \_\_\_\_\_
4. Adapter Seal Flange SHAFFER Size 9" X 3 1/8" 5000# DOUBLE STUDDED  
     A. Ring Size BOTTOM RX-50 & TOP RX-35 Bore 3 1/8"
5. Master Valve BARTON Size 3 1/8" 5000#
6. Xmas Tree Cross SHAFFER Size 3 1/8" X 3 1/8" X 3 1/8" X 2 1/16" 5000#  
     2 1/16" 5000# LEFT SIDE
7. Tbg Wing Valves BARTON Size 3 1/8" 5000# RIGHT SIDE  
     Auto Tbg. Prod Valve N/A Size \_\_\_\_\_
8. Unibolt THORN HILL CRAVER Size 3 1/8" 5000# Inside Thrds \_\_\_\_\_
9. Csg Size 7" Wt 23# Grade J-55
10. Tubing Head to Ground Level 4' 7" BELLOW GROUND LEVEL
11. Wt. Landed on Doughnut \_\_\_\_\_ Tubing Size \_\_\_\_\_ Type \_\_\_\_\_

OPERATOR Socal GAS  
 LSE & NO SFLU 5510  
 MAP 250

	(6)	(7)	(8)	( )	( )	( )
INTENTION	CONVERT TO GAS STOR	REWORK GAS STOR	alter log	REPERFORATE		
NOTICE DATED		8-6-77	12-8-78	01/19/2006		
P-REPORT NUMBER	213-64	277-289	279-381	P206-28		
CHECKED BY/DATE						
MAP LETTER DATED						
SYMBOL		WC	N/C	NC		
	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	2-2-79		8-10-77		12-70-79	
HISTORY	7-23-79		9-30-77		10-19-79	
SUMMARY						
IES/ELECTRIC LOG						
DIRECTIONAL SURV						
CORE/SWS DESCRIPT						
OTHER	neutron log				1-5-79	
RECORDS COMPLETE						

ENGINEERING CHECK

T-REPORTS \_\_\_\_\_

OPERATOR'S NAME \_\_\_\_\_

WELL DESIGNATION \_\_\_\_\_

LOC & ELEV \_\_\_\_\_

SIGNATURE \_\_\_\_\_

SURFACE INSPECTION \_\_\_\_\_

FINAL LETTER OK \_\_\_\_\_

CLERICAL CHECK

POSTED TO 121 \_\_\_\_\_ 170 MAILED \_\_\_\_\_ FINAL LETTER \_\_\_\_\_

MAILED \_\_\_\_\_

RELEASED BOND \_\_\_\_\_

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**SQUAL**  
 OPERATOR W. C. L. C.  
 LSE & NO. SFZU 55-10  
 MAP NO. 250

INTENTION  
 NOTICE DATED  
 P-REPORT DATED  
 CHECKED BY/DATE  
 MAP LETTER DATED  
 SYMBOL

DRILL	ATLCSG	REDRILL	PLUG & ABANDON	SAP TO (A)
3-12-47	9-27-55	10-31-62	7-3-69	9-9-69
P-43191	155-1539	162-1018	169-763	169-1003
3-13-47	M/C	M/C	M/C	M/C
⊙				

REC'D NEED    REC'D NEED    REC'D NEED    REC'D NEED    REC'D NEED

NOTICE  
 HISTORY  
 SUMMARY  
 IES/ELECTRIC LOG  
 DIRECTIONAL SURV.  
 CORE/SWS DESCRIP.  
 DIPMETER RESULTS  
 OTHER  
 RECORDS COMPLETE

3-13-47	9-28-55	11-1-62	7-8-69	9-10-69
8-8-47	7-16-56	3-5-63	→	12-5-69
8-8-47	7-16-56			
		1-18-63		
8-8-47				
⊙	⊙	⊙	⊙	⊙

<b>ENGINEERING CHECK</b> T-REPORTS _____ OPERATOR'S NAME _____ WELL DESIGNATION _____ LOC. & ELEVATION _____ SIGNATURE _____ SURFACE INSPECTION _____ FINAL LETTER OK _____	<b>CLERICAL CHECK</b> POSTED TO 121 _____ 170 MAILED _____ FINAL LETTER MAILED _____ RELEASE BOND _____
--	--

REMARKS  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

# HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company  
Well: Standard Sesnon 10  
A.P.I. No. 037-00040

Field: Aliso Canyon County: Los Angeles  
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.  
Mark Kuncir Title: Storage Field Engineer  
(President, Secretary, or Agent)

Date: 03/03/2006

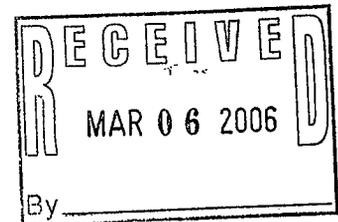
Signature: *MTK*  
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-700-3810

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
01/13/2006	RU Schlumberger W/L. RIH w/ PDC GR-NL CCL tool. Tagged @ 8808'. Closed well in overnight.
01/17/2006	RIH w/ 1-11/16" strip gun and perforated 5" liner w/ 2 SPF (Enjet-DP 1.69", EJ3, RDX, ~0.28" holes) from 8737 - 8716', 8716 - 8706', 8685 - 8663', 8663 - 8648' and 8639 - 8626' (Runs 1 - 5, 81'). Closed well in and RD W/L.



RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. P206-28 \_\_\_\_\_

**PERMIT TO CONDUCT WELL OPERATIONS**

\_\_\_\_\_  
010  
(field code)  
\_\_\_\_\_  
00  
(area code)  
\_\_\_\_\_  
30  
(new pool code)  
\_\_\_\_\_  
30  
(old pool code)

Gas Storage

James D. Mansdorfer, Agent  
Southern California Gas Company  
9400 Oakdale Ave  
Chatsworth CA 91313

Ventura, California  
January 26, 2006

Your \_\_\_\_\_ proposal to \_\_\_\_\_ reperformate \_\_\_\_\_ well "Standard Sesnon" 10  
A.P.I. No. 037-00040 Sec. 29, T. 3N, R. 16W, SB B.&M.,  
Aliso Canyon field, \_\_\_\_\_ area, Sesnon pool  
Los Angeles County, dated 01/19/2006 received 01/25/2006 has been examined in conjunction  
with records filed in this office.

**THE PROPOSAL IS APPROVED PROVIDED THAT:**

1. Wire line operations are conducted through at least a 5M lubricator.
2. This office shall be consulted before initiating any changes or additions to this proposed operation or if operations are to be suspended.

The Division recommends, as a minimum, that carbon monoxide monitoring equipment and a vent line be installed and maintained operational during all extensive perforating operations.

SAF:sf

Engineer Steven A. Fields  
Phone (805) 654-4761

Hal Bopp, State Oil and Gas Supervisor  
By   
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

**Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.**

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

NOTICE OF INTENTION TO REWORK / REDRILL WELL **P206-28**

C.E.Q.A. INFORMATION (when redrilling or deepening only)			
Exempt. <input type="checkbox"/>	Neg. Dec. <input type="checkbox"/>	E.I.R. <input type="checkbox"/>	Document not required by local jurisdiction <input type="checkbox"/>
Class _____	S.C.H. No. _____	S.C.H. No. _____	
See Reverse Side			

FOR DIVISION USE ONLY			
Bond	Forms		EOP Well File
	OGD114 <input checked="" type="checkbox"/>	OGD121 <input checked="" type="checkbox"/>	
1000 000	111 <input checked="" type="checkbox"/>	115 <input checked="" type="checkbox"/>	

This notice and an indemnity or cash bond must be filed, and approval given, before the rework/redrill begins. (See the reverse side for bonding information.) If operations have not commenced within one year of receipt of the notice, this notice will be considered canceled.

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to

rework/redrill well Standard-Sesnon 10 API No. 03700040  
(Circle one) (Well designation)

Sec. 29 T. 3N R. 16W S.B.B.&M. Aliso Canyon Gas Storage Field

Los Angeles County.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

- 0-823' 13-3/8" 55# J55 Surface csg;
- 0-8115' 7" 23-29# J55 & N80 Prod. csg;
- 7976-9323' 5" 18# CS Hydril liner w/ cmt plug from 9323-8900';
- 0-472' 3-1/2" 9.3# N80 EUE 8rd tbg w/ Baker Model T5 SCSSV @ 468';
- 472-7805' 4-1/2" 11.6# N80 EUE 8rd tbg;
- 7805-7956' 3-1/2" 9.3# N80 EUE 8rd tbg landed on Otis 7" PW pkr @ 7950';
- 5" 18# liner perforated w/ 4 SPF from 9043-9078', 9148-9152', 9175-9204', 8767-8875', 88777-8784', 8786-8798', 8817-8844', 8706-8737', 8742-8758', 8626-8639' and 8648-8679' and re-perforated at various intervals from 8717-8843'.

**GS**

2. The total depth is: 9336 feet. The effective depth is: 8900 feet.

3. Present completion zone (s): Sesnon Anticipated completion zone (s): Sesnon  
(Name) (Name)

4. Present zone pressure: 2740 psi. Anticipated/existing new zone pressure: 2740 psi.

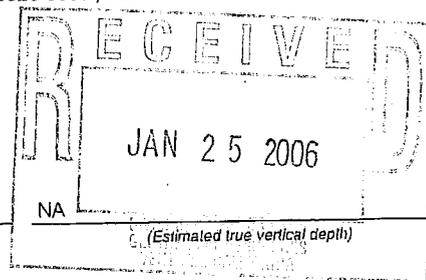
5. Last produced: 3/2004 (Date) (Oil, B/D) (Water, B/D) (Gas, Mcl/D) 4,817

(or)  
Last injected: - (Date) (Water, B/D) (Gas, Mcl/D) (Surface pressure, psig)

6. Is this a critical well according to the definition on the reverse side of this form? Yes  No

The proposed work is as follows: (A complete program is preferred and may be attached.)

Re-perforate Sesnon w/ 2 SPF (1-11/16" strip gun loaded w/ Enjet-DP 1.69", RDX, ~0.28" hole) from 8626-8639', 8648-8685' and 8706-8737' (81' total)



For redrilling or deepening: NA (Proposed bottom-hole coordinates) (Estimated true vertical depth)

The division must be notified if changes to this plan become necessary.

Name of Operator Southern California Gas Company	Telephone Number 818.700.3810
Address 12801 Tampa Avenue	City Northridge
Name of Person Filing Notice Mark T. Kuncir	Signature <i>Mark T. Kuncir</i>
	Zip Code 91326
	Date 1/19/06

File In Duplicate

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura \_\_\_\_\_, California

November 12, 1991

R. D. Phillips, Agent  
SOUTHERN CALIFORNIA GAS COMPANY  
P.O. Drawer 3249 Mail Location 22G0  
Los Angeles, CA 90051-1249

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

The proposed change in designation, in accordance with Section 3203, Public Resources Code, is authorized as follows:

FROM

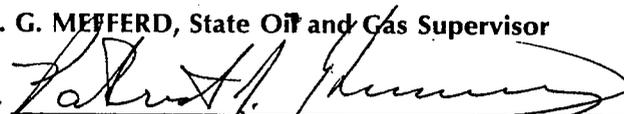
TO

"SFZU" F-2 (037-00665)  
"SFZU" F-3 (037-00666)  
"SFZU" F-4 (037-00667)  
"SFZU" F-5 (037-00668)  
"SFZU" F-6 (037-00669)  
"SFZU" F-7 (037-00670)  
"SFZU" F-8 (037-00671)  
"SFZU" F-9 (037-00672)  
"SFZU" SS-4 (037-00757)  
"SFZU" SS-12 (037-00764)  
"SFZU" SS-4-0 (037-22063)  
"SFZU" SS-10 (037-00040)

"Frew" 2 (037-00665)  
"Frew" 3 (037-00666)  
"Frew" 4 (037-00667)  
"Frew" 5 (037-00668)  
"Frew" 6 (037-00669)  
"Frew" 7 (037-00670)  
"Frew" 8 (037-00671)  
"Frew" 9 (037-00672)  
"Standard Sesnon" 4 (037-00757)  
"Standard Sesnon" 12 (037-00764)  
"Standard Sesnon" 4-0 (037-22063)  
"Standard Sesnon" 10 (037-00040)

M. G. MEFFERD, State Oil and Gas Supervisor

By



Deputy Supervisor  
PATRICK J. KINNEAR

OCT 19 1979

## DIVISION OF OIL AND GAS

SANTA PAULA, CALIFORNIA

## History of Oil or Gas Well

OPERATOR Southern California Gas Company FIELD Aliso Canyon  
 API No. 037-00040  
 Well No. Standard Sesnon # 10, Sec. 29, T. 3N, R. 16W, S. B. B. & M.  
 Date January 10, 1979 Signed P.S.M./D.S. Lee  
P.O. box 3249 Terminal Annex Los Angeles, Ca. 90051 (213) 689-3561 P.S. Magruder, Jr.  
 (Address) (Telephone Number) Title Agent  
 (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	Well
1978	GWO 98402 MWO 99568
	Program: To isolate and correct leak in 7", 23# N-80 casing approximately 4,500'.
12-9	0 Day. Killed well with 315 barrels of 72# polymer completion fluid.
12-11	1st Day. Moved California Production Service Co. rig #D-3 onto wellsite.
12-12	2nd Day. Rigged up and circulated well. Removed tree and installed BOPE. Tested blind rams and pipe rams with water to 4,000 psi for 20 minutes. Tested Hydril with water to 3,000 psi for 20 minutes.
12-13	3rd Day. Tested manifold with water to 4,000 psi for 20 minutes. Tested with nitrogen as follows: <ol style="list-style-type: none"> <li>1. Manifold and lines with 4,000 psi for 20 minutes.</li> <li>2. Blind rams and pipe rams with 4,000 psi for 20 minutes.</li> <li>3. Hydril "GK" with 3,000 psi for 20 minutes.</li> </ol> Released tubing from packer. Circulated 1-1/2 hours and started out of hole.
12-14	4th Day. Pulled tubing and production equipment from well. Ran 6" bit and scraper to top of liner at 7,976'. Circulated hole clean and started out of hole.
12-15	5th Day. Continued out of hole. Ran Johnston bridge plug which was set at 4,600'. Spotted 5 sacks of sand above bridge plug. Pulled 180' of tubing and waited one hour. Tagged sand at 4,592'. Pulled out and ran Johnston "fullbore". Checked sand at 4,577'. With packer at 4,565' tested bridge plug to 2,000 psi for 10 minutes. Tested with packer at 4,442' to 4,577' with 2,000 psi for 20 minutes, OK. Tested casing from 4,442' to surface with 2,000 psi for 20 minutes, OK. Tested with packer at 4,412' to 4,577' with 2,000 psi for 20 minutes, OK. Pulled out of hole. Started in hole for bridge plug.

- 12-16 6th Day. Ran in hole with bridge plug retrieving tool and tagged sand at 4,577'. Circulated sand out of hole. Retrieved bridge plug. Made up one seal, "J"-latch, 2 3/8" Bowen jars, 115' 3 1/8" drill collars, 21 joints (657') 2 3/8", 4.7#, 8rd, EUE tubing. Ran in and latched into packer at 8,600'. Unseated packer. Pulled out of hole. Laid down packer and tools. Ran in hole with 5" casing scraper, 33 joints (1,023') 2 3/8", 4.7#, 8rd, EUE, 2 7/8" tubing to 2,000'.
- 12-17 Rig and crew idle.
- 12-18 7th Day. Ran 4 1/8" bit, 5" casing scraper, 33 joints 2 3/8", 4.7#, 8rd EUE to top of fill at 8,881'. Cleaned out to 8,900'. Circulated hole. Pulled out and ran collar locator and Neutron Correlation Log from 4,700' to 3,700'. Ran and set 7" Otis "Permatrrieve" packer at 7,950' (nearest collar 7,933').
- 12-19 8th Day. Pulled out of hole. Laid down 2 3/8" tubing. Made up Pengo "casing patch" (four 10' sections) O.D. 6.00", I.D. 5.50", overall length 42'. Ran "patch" on 2 7/8", 6.5#, 8rd, EUE to 4,516'. Ran Neutron Correlation Log to get exact placement. Igniters did not fire. Pulled Pengo "patch". Replaced igniters. Reran Pengo "patch". Ran Collar locator log. Set "patch" from 4,474' to 4,516' (42') leak at 4,492'. 7" collars at 4,456', 4,499' and 4,540'. Started out of hole.
- 12-20 9th Day. Pulled out of hole and laid down Pengo tools. Ran in hole with Otis seal assembly (2 seals) and "J"-latch, changing collars, cleaning pins and applying Baker seal thread lubricant. Latched into 7" Otis "Permatrrieve" packer at 7,950' and pulled 20,000# tension load on packer. Pressure tested packer at 1,500 psi for 20 minutes, OK. Pulled up to 2,000'.
- 12-21 10th Day. Pulled out of hole. Made up guide, production tube, four seals, "J"-latch, 10' blast joint, Otis 2.205" XN nipple, 2' pup joint, 20' blast joint, annular flow safety system (Otis) and tested on rack at 5,000 psi for three minutes. Hydrottested in hole at 5,000 psi for one minute. Used Baker seal thread lubricant. Spaced out tubing and landed tubing with 10,000# compressive load at 7,950'. Tested latch with 25,000# tension load.
- 12-22 Rig and crew idle.
- 12-23 Rig and crew idle.
- 12-24 Rig and crew idle.
- 12-25 Rig and crew idle.
- 12-26 11th Day. Made up keeper screws on tubing hanger. Installed back-pressure valve in tubing hanger. Removed B.O.P.E.. Installed xmas tree. Tested upper and lower tubing hanger seals at 5,000 psi for 20 minutes, OK. Then tested above upper tubing hanger seals at 5,000 psi for 20 minutes, OK. Removed back-pressure valve. Changed circulating system to lease brine. Installed blind flanges on production tree.
- 12-27 12th Day. Cleaned up cellar. Transferred polymer completion fluid. Laid down mast and rigged down. RELEASED RIG at 2:00 p.m.

*pw*

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

No. P 279-381

**REPORT ON PROPOSED OPERATIONS**

010  
(field code)  
03  
(area code)  
30  
(pool code)

Mr. J. W. Tenfelder, Agent  
So. California Gas Co.  
12801 Tampa Avenue  
Northridge, CA 91324

Santa Paula, California  
December 13, 1979

Your \_\_\_\_\_ proposal to alter casing well "SFZU" SS-10,  
A.P.I. No. 037-00040, Section 29, T. 3N, R. 16W, S. B.B. & M.,  
Aliso Canyon field, Main area, Sesnon-Frew pool,  
Los Angeles County, dated 12/8/79, received 12/10/79 has been examined in conjunction with records  
filed in this office.

**THE PROPOSAL, COVERING CORRECTIVE OPERATIONS, IS APPROVED ACCORDING TO PRIOR AGREEMENT.**

Blanket Bond  
JR:r

M. G. MEFFERD, State Oil and Gas Supervisor

By *John K. Hardoin*  
John K. Hardoin, Deputy Supervisor

**A copy of this report and the proposal must be posted at the well site prior to commencing operations.**

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

DEC 10 1979

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered canceled.

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
<i>BB</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. STANDARD SESNON #10, API No. 037-00040, Sec. 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth. 9336' - cement plug 8900'
- Complete casing record, including plugs and perforations:
  - 13 3/8" cemented 823'
  - 7" cemented 8115', window
  - 1347' 5" cemented 9323', WSO 8496', perforated four 1/2" holes per foot 8844'-8817', 8798'-8786', 8784'-8777', 8775'-8767', 8758-8742', 8737'-8706', 8679'-8648', 8638'-8626'

- Present producing zone name SESNON Zone in which well is to be recompleted -
- Present zone pressure 3500 psi New zone pressure -
- Last produced \_\_\_\_\_ (Date) \_\_\_\_\_ (Oil, B/D) \_\_\_\_\_ (Water, B/D) \_\_\_\_\_ (Gas, Mcf/D)  
or
- Last injected \_\_\_\_\_ (Date) \_\_\_\_\_ (Water, B/D) \_\_\_\_\_ (Gas, Mcf) \_\_\_\_\_ (Surface pressure, psig.)

The proposed work is as follows:

- Move in and rig up. Kill well. Install B.O.P.E. and pressure test.
- Pull tubing. Run bit and casing scraper - clean out to 7976'.
- Set bridge plug near 4600'. Run retainer and locate leak near 4480'. Squeeze leak with cement. Set casing patch.
- Run tubing with down-hole safety system.
- Return well to gas storage service.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P.O. Box 3249, Terminal Annex  
(Street)  
Los Angeles California 90051  
(City) (State) (Zip)  
Telephone Number (213) 689-3561

SOUTHERN CALIFORNIA GAS COMPANY  
(Name of Operator)  
By PSM/O.S. [Signature]  
(Name) P. S. Magruder, Jr. (Date) 12-8-78  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

SOUTHERN CALIFORNIA  COMPANY

810 SOUTH FLOWER STREET • LOS ANGELES, CALIFORNIA

D. S. SMILEY  
Drilling Superintendent

Mailing Address BOX 3249 TERMINAL ANNEX, LOS ANGELES, CALIFORNIA 90051

December 6, 1979

DIVISION OF OIL AND GAS  
RECEIVED

DEC 10 1979

Department of Conservation  
Division of Oil and Gas  
146 South Ojai Street  
P. O. Box 67  
Santa Paula, California 93060

SANTA PAULA, CALIFORNIA

Attn: Mr. John Hardoin, Deputy Supervisor

Dear Mr. Hardoin:

Please refer to your letter of November 27, 1979, concerning our failure to file a "Notice of Intention to Rework Well" for Aliso Canyon Well "SFZU" SS-10. We find that a copy of such notice, dated December 8, 1978, was contained in our files. Apparently, this notice was never signed and sent to you. We apologize for this oversight and assure you that such delays in submitting required documents will not occur in the future. In addition, we have modified our field procedures to insure that well work will not commence without proper authorization from your office.

Thank you for your patience in this matter. If you should have any questions, please do not hesitate to call me at (213) 689-2050.

Sincerely yours,



D. S. Smiley

DSS:md

cc: Messrs. G. C. Abrahamson  
L. A. Awalt  
P. S. Magruder, Jr.

DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

146 SOUTH OJAI STREET, P. O. BOX 67  
SANTA PAULA, CALIFORNIA 93060  
(805) 525-2105



November 27, 1979

Mr. J. W. Tenfelder, Agent  
Southern California Gas Co.  
12801 Tampa Avenue  
Northridge, CA 91324

Re: "SFZU" SS-10  
OVERLOOKED NOTICE TO REPAIR  
CASING

Dear Mr. Tenfelder:

On October 19, 1979, this office received a history that covered the repairing of the 7" casing in well "SFZU" SS-10 in December 1978.

As was indicated during our telephone conversation, a notice was not filed for this operation.

Please do so immediately, and indicate the reason for the late filing.

The Division may grant temporary approval to commence operations necessary to avert a threat to life, health, property, or natural resources, or when approved operations are in progress, and newly discovered well conditions are such that immediate corrective or abandonment operations are desirable. However, the operator shall immediately file a written notice of intention to carry out a program temporarily approved.

Yours truly,

A handwritten signature in cursive script, appearing to read "John L. Hardoin".

John L. Hardoin  
Deputy Supervisor

JLH:b

cc: Smiley

P.S.

Almost 25 lbs. of electric logs of Playa del Rey wells was mistakenly sent to this office. We forwarded them to the division office in Long Beach.

SUBMIT IN DUPLICATE  
 RESOURCES AGENCY OF CALIFORNIA  
 DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

DIVISION OF OIL AND GAS  
 RECEIVED

SEP 30 1977

**History of Oil or Gas Well**

SANTA PAULA, CALIFORNIA

Operator Southern California Gas Company Field or County Aliso Canyon  
 Well name and No. STANDARD SESNON #10 Sec. 29, T. 3N, R. 16W S.B. B. & M.  
 A.P.I. well No. 037-00040 Name P. S. Magruder, Jr. Title Agent  
 Date September 24, 1977 (Person submitting report) (President, Secretary or Agent)

Signature *P.S. Magruder, Jr.*

P.O. Box 3249 Terminal Annex, Los Angeles, Ca., 90051  
 (Address)

(213) 689-3561  
 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

- | Date    |   |
|---------|---|
| 8-19-77 | Pulled side choke from 7951'. Pulled plug from 8686' with Archer-Reed Wireline.   |
| 8-22-77 | Killed well with 355 barrels of 73# polymer drilling fluid.   |
| 8-24-77 | Pressure tested seals and Christmas tree with Associated Services to 4000 psi - O.K.  |
| 9-8-77  | Moved California Production Service Rig #M-19 from Porter #4 to Standard Sesnon #10.  |
| 9-9-77  | Finished moving in rig and rigged up. Filled hole with 18 barrels 73#/cu.ft. polymer drilling fluid. Installed back pressure valve in donut. Removed Xmas tree and installed Class III B.O.P.E. Pressure tested B.O.P.E. with water and nitrogen to 4000 psi on pipe rams and blind rams. Pressure tested Hydril to 3000 psi with water and nitrogen. |
| 9-10-77 | Nippled up flow line. Unseated Otis packer and pulled out of Baker Model "D" packer. Circulated well to dispel gas from drilling fluid. Measured 2 7/8" and 2 3/8" tubing out of well. Laid down Otis tools. Ran in with two drill collars and Baker packer milling tool on 2 7/8" and 2 3/8" tubing.   |
| 9-11-77 | Rig and crew idle.  |
| 9-12-77 | Milled over and recovered Baker Model "D" packer. Ran in with 6" bit and 7" casing scraper.   |
| 9-13-77 | Ran 6" bit and 7" casing scraper to 7976'. Ran 4 1/8" bit and 5" casing : scraper to 8900'. Ran in with 5" bridge plug on 2 7/8" and 2 3/8" tubing.   |
| 9-14-77 | Set Retrievable bridge plug at 8600' and tested with rig pump to 1000 psi. Pressure tested casing, as follows:  |
|         | 800' to Surface with 4000 psi for 60 minutes  |
|         | 1500' " " " 3700 psi " 60 "   |
|         | 2100' " " " 3500 psi " 60 "   |
|         | 2600' " " " 3200 psi " 60 "   |
|         | 3100' " " " 3000 psi " 60 "   |
|         | 3100' " 8600' " 2800 psi " 60 "   |

- 9-15-77 Pulled out and laid down cement squeeze tool. Ran in with retrieving tool to 8590'. Changed over from fresh water to polymer drilling fluid. Released bridge plug at 8600', pulled out and laid down. Ran Otis 5" 18# packer on wireline and set at 8600'. Ran 2 3/8" and 2 7/8" tubing, changing collars, cleaning pins, applying Baker seal and hydrotesting to 5000 psi and holding each test for one minute.
- 9-16-77 Finished running tubing and hydrotesting. Landed tubing with 10,000# on packer and pulled 25,000# over weight of tubing to check latch. Installed back pressure valve in donut. Removed B.O.P.E. and installed Xmas tree.
- 9-17-77 Pressure tested Christmas tree to 5000 psi. Circulated out drilling fluid with lease salt water. Set tubing plug in NO-GO at 8589'. Pressure tested seals and packer under 2000 psi. Removed tubing plug. RELEASED RIG at 10:00 P.M. (9-17-77).

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

**Report on Operations**

No. T 277-277

Mr. P. S. Magruder, Jr., Agent  
Southern Calif. Gas Co.  
P.O. Box 51790 Terminal Annex  
Los Angeles, Calif. 90054

Santa Paula, Calif.  
Oct. 11, 1977

DEAR SIR:

Operations at well No. "SFZU" SS-10, API No. 037-00040, Sec. 29, T. 3N, R. 16W,  
S.B. B & M. Aliso Canyon Field, in Los Angeles County, were witnessed  
on 9/10/77. Mr. P. R. Wyle, representative of the supervisor was  
present from 1630 to 1830. There were also present M. Duckworth, contract  
foreman

Present condition of well: No additions to the casing record since proposal dated 8/6/77.

The operations were performed for the purpose of testing the blowout prevention equipment  
and installation.

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

b

W. G. MERTERD

JOHN F. MATTHEWS, JR.  
State Oil and Gas Supervisor

By John L. Hardoin Deputy  
John L. Hardoin

P(1)

REPORT ON PROPOSED OPERATIONS

Santa Paula, California

Aug. 12, 1977

Mr. P. S. Magruder, Jr., Agent  
Southern California Gas Co.  
P.O. Box 54790 Terminal Annex  
Los Angeles, Calif. 90054

Your proposal to rework gas storage well "SFZU" SS-10  
(Name and number)

, A.P.I. No. 037-00040, Section 29, T. 3N, R. 16W

S. B. B. & M., Aliso Canyon field, Los Angeles County,

dated 8-6-77, received 8-10-77, has been examined in conjunction

with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The drilling fluid used shall be of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts; and a reserve supply of this material kept on hand to meet any emergency.
2. Blowout prevention equipment, at least of the Division of Oil and Gas Class III, 3M rating, shall be installed and maintained in operating condition at all times.

THIS DIVISION SHALL BE NOTIFIED TO WITNESS A PRESSURE TEST OF THE BLOWOUT PREVENTION EQUIPMENT BEFORE COMMENCING DOWNHOLE OPERATIONS.

NOTE: A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

Blanket Bond  
MD:b

M.G. MEFFERD

State Oil and Gas Supervisor

By

*John L. Hardoin*  
Deputy Supervisor

John L. Hardoin

**DIVISION OF OIL AND GAS**  
**Notice of Intention to Rework Well**

AUG 10 1977

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered null and void. **SANTA PAULA, CALIFORNIA**

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
<i>BB</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. Standard Sesnon #10, API No. \_\_\_\_\_, Sec. 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 9336'

2. Complete casing record, including plugs and perforations:

13 3/8" cemented 823'  
7" cemented 8115' section milled old shoe 8612'  
1347' 5" cemented 9323', top 7976', WSO 9006', 8490'  
perforated at intervals 9204' - 9043' - cement plug 9278'  
and from 9080' - 8900', exclude Frew zone  
Perforated at intervals 8844' - 8620'. WSO on lap at 7976'.

3. Present producing zone name Sesnon Zone in which well is to be recompleted --

4. Present zone pressure 3600 psi New zone pressure \_\_\_\_\_

5. Last produced Gas Storage Well \_\_\_\_\_  
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

or

6. Last injected \_\_\_\_\_  
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

1. Move in and rig up. Kill well. Install B.O.P.E. and pressure test.
2. Pull tubing and packer. Mill up packer at 8684' and recover or push to bottom 8900'.
3. Pressure test 5" and 7" casing. Perform any remedial work indicated by pressure testing.
4. Run packer and tubing with down hole safety system.
5. Return well to gas storage.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P.O. Box 3249, Terminal Annex  
(Street)  
Los Angeles, Calif., 90051  
(City) (State) (Zip)  
Telephone Number (213) 689-3561

SOUTHERN CALIFORNIA GAS COMPANY  
(Name of Operator)  
By P.S. Magruder, Jr.  
(Name) (Date) 8-6-77  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

AUG 10 1977

STANDARD SESNON #10 - ALISO CANYON

SANTA PAULA, CALIFORNIA

Program to install new packer, pressure test casing and install new down hole safety system.

CASING WITHDRAWAL ONLY

Take all measurements from original Kelly bushing 13' above ground.

PRESENT CONDITIONS:

13 3/8" cemented 823' 54'5# J-55  
 7" cemented 8115' (section milled)  
 1347' 5" cemented 9323', plugged 8900'  
 Top 7976', WSO on lap, WSO  
 8496', segregation 9006'  
 Perforated 9204' - 9043' at intervals  
 Plugged off with cement (frew zone)  
 Perforated 8844' - 8817'  
 8798' - 8786'  
 8784' - 8777'  
 8775' - 8767'  
 8758' - 8742'  
 8737' - 8706'  
 8679' - 8648'  
 8639' - 8626'  
 18# Hydril flush joint unknown grade

<u>CASING DETAIL</u>		<u>100% Safety Factor</u>	
		<u>BURST</u>	<u>COLLAPSE</u>
7"	0' - 3656' 23# J-55	4360	3290
	3656' - 5346' 23# N-80	6340	4300
	5346' - 6977' 26# N-80	7240	5320
	6977' - 8115' 29# N-80	8160	6370
5"	7976' - 9323' 18# (J-55)	7000	6530

TUBING DETAIL:

Baker Model "D" packer 8684' (5")  
 Otis Hydrostatic packer 7955' (7")  
 2 3/8" and 2 7/8" 8rd EUE J-55 and N-80  
 Tubing landed 8694'  
 Otis "XN" (2 3/8") 8687' (plug in place)  
 Otis 2 3/8" sliding sleeve, 8678' (open)  
 2 3/8" tubing to 7956'  
 Otis "X" nipple (2 7/8") 7940'  
 Otis sliding sleeve (2 7/8") 7900' (open)  
 4 Camco gas lift mandrels with valves  
 In bottom 2 mandrels, dummies in top  
 2 mandrels

DIVISION OF OIL AND GAS  
RECEIVED

AUG 10 1977

Standard Sesnon #10 - Aliso Canyon

PAGE 2.

SANTA PAULA, CALIFORNIA

PROGRAM:

1. Move in and rig up. Pressure test well head seals to 3300psi.
2. Kill well with 73#/cu.ft. brine polymer drilling fluid. Check bottom hole pressure before moving in rig. Volume of well 355 barrels.
3. Install back pressure valve in doughnut. Remove Xmas tree and install class III 5000 psi BOPE. Pressure test complete shut-off rams and pipe rams to 4000 psi with water and nitrogen. Also pressure test Hydril bag to 3000 psi with water and nitrogen. Use float valve.
4. Pull tubing including 7" Hydrostatic packer. Mill up Baker model "D" packer at 8684' and push junk to bottom, 8900' cap with cement.
5. Run 6" bit and casing scraper. Clean out to top of 5" liner at 7976'. Also run 4 1/8" bit and casing scraper. Clean out to 8900' or top of junk.
6. Set bridge plug at 8600'. Pressure test bridge plug with rig pump. Circulate polymer fluid out of well with fresh water treated with surface tension agent. Pressure test casing, using cement retainer and cement pump truck equipped with calibrated pressure chart and pressure gauge, as follows:

3100' to 8600'	with 2800 psi for 60 minutes
3100' " Surface "	3000 psi " 60 "
2600' " " "	3200 psi " 60 "
2100' " " "	3500 psi " 60 "
1500' " " "	3700 psi " 60 "
800' " " "	4000 psi " 60 "

Change to polymer drilling fluid.

7. Perform any remedial work indicated by pressure testing. Pull bridge plug from 8600'.
8. Run Otis Permatrievue packer on wire line and using reference collars set packer in 5" casing near 8600'. Do not set packer in a collar.
9. Run 2 3/8" and 2 7/8" 8rd EUE tubing, change collars, clean pins, apply Baker seal and hydrotest to 5000 psi holding each test for one minute. Tubing to include:

Otis production tube  
Otis 4 seals  
Otis Latch-in-locator  
Otis 10' heavy wall tube  
Otis 1.56" "NOGO" nipple with 2 3/8" threads  
Otis 20' heavy wall tube  
2 3/8" tubing to 7900' and 2 7/8"  
Tubing to surface with 600' of 2 7/8" N-80 on top

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AUG 10 1977

Standard Sesnon #10 - Aliso Canyon

PAGE 3.

SANTA PAULA, CALIFORNIA

PROGRAM: (Concluded)

10. Land tubing on packer with up to maximum of 10,000 pounds on packer. Pull up 25,000 pounds over weight of tubing to check latch.
11. Install back pressure valve in doughnut. Remove BOPE. Reinstall Xmas tree. Pressure test Xmas tree to 5000 psi.
12. Circulate drilling fluid out of well with waste salt water. Set tubing plug in "NOGO" nipple. Pressure test seals and packer to 2000 psi. Remove tubing plug and release rig.

*GA*

G. C. ABRAHAMSON  
August 6, 1977

cc: Rig Supervisor  
Contract Pusher (2)  
Relief Rig Supervisor

B. Jones  
D. Smiley  
J. Melton  
D. Justice)  
M. Grijalva)

D.O.G. ✓

Well File  
Book Copy  
Spare Copy

GA/nd

## DIVISION OF OIL AND GAS

JUL 23 1973

### History of Oil or Gas Well

SANTA BARBARA, CALIFORNIA

OPERATOR Pacific Lighting Service Company FIELD Aliso Canyon

Well No. SS 10, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date \_\_\_\_\_, 19\_\_\_\_

Signed *A. B. Magender*

P. O. Box 54790, Terminal Annex

Los Angeles, California 90054 (213) 689-3561

Title Agent

(Address)

(Telephone Number)

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1973	
4-13	Moved in California Production Service and rigged up. Blew down tubing and casing and filled same with 270 bbls. lease salt water.
4-14	Rigged up Otis wireline to pull Otis "H" valve and "D" collar lock at 1005' and gas lift valve at 7946'. Could not run tools due to wax in tubing. Cleaned out heavy wax with wireline wax cutter 15'-610'. Pulled "H" valve and collar lock. Pulled gas lift valve. Spotted heavy pill on bottom and shut well in for two hours. Displaced salt water with workover fluid. Lost 15 bbls. while displacing.
4-15	Idle.
4-16	Filled hole with 3 bbls. and circulated for one hour from 7946'. Removed production head and installed class 3 B.O.P.E. Tested pipe rams with 2150 psi for 15 minutes OK. Tested Hydril bag with 1850 psi for 15 minutes OK. Pulled packer loose and measured out of hole. Ran 7" casing scraper and tagged top of liner at 7984'.
4-17	Ran 4-1/8" bit and 5" casing scraper. Cleaned out sand bridge at 8863'. Cleaned out shooting debris 8880'-8883'. Circulated from 8880' for 2-1/2 hours.
4-18	Rigged up Dresser Atlas. Ran cement bond log 7500'-8871', neutron lifetime/gamma ray logs 8100'-8871', and densilog 8100'-8876'. Ran 5" Baker model "C" bridge plug on 502' of 2-3/8" tubing below 7" fullbore packer.
4-19	Set bridge plug at 8476' and tested casing from surface to 8476' with 1525 psi for 20 minutes OK. 5" liner and splice OK. Pulled up and set fullbore packer at 3526'. Tested from surface to 3526' with 2075 psi for 20 minutes OK. Reset packer at 2308' and tested from surface to 2308' with 2600 psi for 20 minutes OK. Reset packer at 1147' and tested from surface to 1147' with 3075 psi for 20 minutes OK. 7" casing OK. Ran retrieving tool and pulled bridge plug from 8476'. Filled 7" x 13-3/8" annulus with 90 bbls. waste rotary mud.

1973

- 4-20 Rigged up Dresser Atlas and jet perforated four 1/2" holes per foot 8626'-8639' and 8648'-8679'. Used 3-1/2" carriers and 11.0 gram charges. Made up and ran 5" Johnston bridge plug and tester in tandem. Set bridge plug at 8702'. Set tester at 8602', tail to 8625'. Opened tester at 7:25 PM and flowed S-4 zone for 3 hours. Daily rates at end of 3 hour flow period: 2.728 M<sup>2</sup>CF, 78.4 bbls. gross, 24.8 bbls. net. Final surface flowing pressure 475 psi through 48/64" bean. Shut well in at tester at 10:25 PM.
- 4-21 Blew down tubing and filled same. No fluid rise. Dropped bar and backscuttled bottoms up. Bottoms verified lack of fluid rise. Closed tester and pulled packer loose at 7:40 AM. Retrieved bridge plug and pulled test string. Charts OK. Bottom outside recorder readings: I.H. 3839 psi, I.F. 1076 psi, F.F. 1221 psi, I.S.I. & F.S.I. 1406 psi, F.H. 3859 psi. Recorder on bottom of bridge plug showed restricted communication between S-4 and S-8 zones and rubber elements showed perforation imprints. Believe S-8 perforations shot through tubing are 17' higher than reported. Ran 5" Johnston bridge plug with recorder and set same at 8690' (8684' neutron lifetime log measurement). Circulated for one hour 50 minutes from 8610'. Retrieved bridge plug and reset same at 8224'.
- 4-22 Idle.
- 4-23 Removed B.O.P.E. and tubing head. Rigged up casing jacks and 7" spear. Could not unland 7" casing. Cut out slips and cut off casing head. Deepened cellar and welded on new A.P.I. 5000 psi casing head.
- 4-24 X-rayed casing head weld OK. Relanded 7" casing with 200,000#. Installed and tested new tubing head. Installed B.O.P.E. Closed blank rams and tested from surface to 8224' with 1025 psi for 20 minutes OK. Pulled bridge plug from 8224'. Recorder showed no communication.
- 4-25 Rigged up Dresser Atlas and set Baker model "D" production packer at 8684'. Made up production string and Hydro tested in hole with same. Spaced out to land in model "D" packer. Changed over to lease salt water. Landed tubing with 9000# on model "D".
- 4-26 Rigged up Otis wireline. Set No-Go plug in "XN" landing nipple at 8686'. Pressured tubing to set Otis hydraulic packer at 7953' (center of packing elements). Opened sliding sleeve at 8675' and attempted to circulate. Could not circulate with 1000 psi. Packer set OK. Removed B.O.P.E. Installed and tested new production head. Tore out California Production Service.

SS 10 TUBING DETAIL

4-26-73

<u>No. Joints</u>	<u>Item</u>	<u>Length</u>	<u>Depth</u>
	Below K.B.	18.00	18.00
	2-7/8", EU, 8rd. J-55 fatigue nipple	1.00	19.00
	2-7/8", EU, 8rd. J-55 pup joint	4.00	23.00
	2-7/8", EU, 8rd. N-80 pup joint	10.00	33.00
	2-7/8", EU, 8rd. N-80 pup joint	10.00	43.00
161	2-7/8", EU, 8rd. J-55 tubing	4864.02	4907.02
	2-7/8", EU, 8rd. N-80 pup joint	4.10	4911.12
	2-7/8" Camco KBMG mandrel w/Bk. valve, 1/4" ports, 1050#	5.20	4916.32
	2-7/8", EU, 8rd. N-80 pup joint	2.00	4918.32
36	2-7/8", EU, 8rd. J-55 tubing	1092.01	6010.33
	2-7/8", EU, 8rd. N-80 pup joint	4.10	6014.43
	2-7/8" Camco KBMG mandrel w/Bk. valve, 1/4" ports, 1025#	5.20	6019.63
	2-7/8", EU, 8rd. N-80 pup joint	2.10	6021.73
32	2-7/8", EU, 8rd. J-55 tubing	986.05	7007.78
	2-7/8", EU, 8rd. N-80 pup joint	4.05	7011.83
	2-7/8" Camco KBMG mandrel w/Bk. valve, 1/4" ports, 1000#	5.20	7017.03
	2-7/8", EU, 8rd. N-80 pup joint	2.15	7019.18
28	2-7/8", EU, 8rd. J-55 tubing	843.55	7862.73
	2-7/8", EU, 8rd. N-80 pup joint	4.00	7866.73
	2-7/8" Camco KBMG mandrel w/Bk. valve, 1/4" ports, 975#	5.20	7871.93
	2-7/8", EU, 8rd. N-80 pup joint	2.22	7874.15
1	2-7/8", EU, 8rd., J-55 tubing	31.02	7905.17
	2-7/8" x 2.313" I.D. Otis "XO" sliding sleeve	3.20	7908.37
1	2-7/8", EU, 8rd., J-55 tubing	31.01	7939.38
	2-7/8" x 2.313" I.D. Otis "X" landing nipple	1.10	7940.48
	2-7/8", EU, 8rd., N-80 pup joint	10.00	7950.48
	2-7/8" x 7" 29# Otis "RH" hydraulic packer	4.30	7954.78
	2-7/8" x 2-3/8" EU, 8rd. X-Over	1.10	7955.88
23	2-3/8", EU, 8rd. J-55 tubing	719.40	8675.28
	2-3/8" x 1.875" I.D. Otis "XO" sliding sleeve	2.85	8678.13
	2-3/8", EU, 8rd., N-80 pup joint	8.00	8686.13
	2-3/8" x 1.791" I.D. Otis "XN" landing nipple	1.15	8687.28
	Baker model "D" seal assembly	6.40	8693.68

259 joints 2-7/8" tubing  
23 joints 2-3/8" tubing

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 263-64

Mr. P. S. Magruder, Jr. Agent  
Pacific Lighting Service Company  
P O Box 54790, Terminal Annex  
Los Angeles, California 90054

Santa Paula Calif.  
February 8, 1973

DEAR SIR: (037-00040)  
Your proposal to convert to gas storage Well No. "SFZU" SS-10  
Section 29, T. 3N, R. 16W S.B. B. & M., Aliso Canyon Field, Los Angeles County,  
dated 1/19/73, received 2/2/73, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT NONE OF THE PROPOSED PERFORATIONS SHALL BE ABOVE 8496'.

Blanket Bond  
ALL:a  
cc: Operator

JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor

By LOP Pitjeus, Deputy

DIVISION OF OIL AND GAS  
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DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well 1973

This notice must be given before work begins; one copy only

Los Angeles Calif. January 29, 1973

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. SFZU SS10

(Cross out unnecessary words)

Sec. 28, T. 3N, R. 16W, SB B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

*Jack Matthews*

1. Total depth. TD 9323'; Pg. 8900'

2. Complete casing record, including plugs:

- 13-3/8", 54.5# C 823'
- 7", 23, 26 & 29# eff. to 8115', (Section 8115'-81145')
- 13 1/2" 18# eff. to 8900'.
- WSO 5"x7" lap\*; WSO (Co.) 4 h's 8496' \*\*
- J.P. 4 h/ft 8817'-8844', 8752-8742-9-8731-8706
- TLH 7976'

*7" complete*

Casing ineffective below pg. @ 8900'.

\* Witnessed and approved by D.O.G.

\*\* Verbal approval by John Matthews of D.O.G. (6/16/69)

3. Last produced. (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

The proposed work is as follows:

Jet perforate four 1/2" holes per foot and/or reperforate two 1/2" holes per foot in the Sesnon zone as required to convert well to a gas storage well.

*Jack Matthews*

FORMS	
114	121
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054  
(Address)

(213) 689-3561  
(Telephone No.)

Pacific Lighting Service Company  
(Name of Operator)

By *R.B. Magruder Jr.*

*151 60.1000  
2.12 360-2289*

1006

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR GETTY OIL COMPANY, Operator FIELD ALISO CANYONWell No. "SFZU" SS-10, Sec. (28)<sup>29</sup>, T. 3N, R. 16W, S.B. B. & M.Date July 31, 19 70 Signed Carl G NelsonP.O. Box 811, Ventura, California 643-2154 Title Agent  
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

HISTORY

11/11/69 California Production Service moved in and rigged up to perforate additional zone. Ran swab to 3500', no fluid. Moved out.

11/12 Pumped in 50 barrels oil. Ran 1 3/4" feeler to 7921', could not get by MM mandrel. Pulled out of hole. Ran fluid level shots. Fluid level in casing at 3500'. Tubing fluid level 3400'. Prep. to open tubing to casing (equalize), then run wireline to find fluid level and remove valve from MM mandrel.

11/13 Pulled R-20 valve from MM mandrel. Valve was bent. Prep. to perforate with valve out of MM mandrel.

11/17 Rigged up Dresser Atlas and ran 1 1/4" feeler; would not go below 7940'. Rigged out.

12/12/69 California Production Service moved in and rigged up. Attempted to kill well. Unable to kill well with oil after three hours circulation.

12/13-15 Unable to circulate free of gas and oil. Changed over to salt water. Circulated free of gas. Removed tree and installed B.O.P. Pulled and measured tubing. Replaced gas lift valves with new valves. J.P'd 4 h/ft 8798-8786'; 8784-8777'; and 8775-8767'. Hydrotested in tubing, valves and packer at 4500 psi. Set packer at 8456'. Tore out B.O.P. Installed tree and moved out.

1/13/70 1 BFPD; 1 BOPD.

1/15 8 BFPD; 13%; 7 BOPD.

1/16 9 BFPD; 11%; 8 BOPD.

1/19 2 BFPD; 50%; 1 BOPD.

3/16 Pulled valve out of MM mandrel prior to perforating additional interval.

3/31 Pumped in 180 barrels dead crude to kill well. Ran R-20 valve on wireline to mandrel at 7946'. While attempting to set valve wireline parted. Caught and tied off wireline above tree. Prep. to unload well and attempt to retrieve the wireline.

4/3 Pulled valve from MM mandrel. Unloading well with gas.

4/6-8 Prep. to perforate.

4/9 Dresser-Atlas rigged up and J.P'd 4 h/ft 8758-8742'; 8737-8706'.

4/13 Unloading the well

4/14 5 BFPD; 40%; 3 BOPD.

4/19 4 BFPD; 5%; 2 BOPD

4/24 2 BFPD; 2 BOPD.

4/29 4 BFPD; 4 BOPD.

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6/10/70 Pulled operating valve from MM mandrel with wireline. Prep. to kill well to check perforations with pressure washer.

6/12 California Production Service moved in and rigged up. Circulated bottoms up. Pulled and measured tubing. Laid down gas valves and packer. Ran tubing with pushout washer to top of liner.

6/15 Ran in hole with pushout washer. Blanked off at 8850' (below perfs.). Checked perfs from 8844' to 8706'. Open perfs. as follows: 8844-8843' (1'); 8833-8834' (1'); 8828-8822' (6'); 8796-8798' (2'); 8792-8793' (1'); 8790-8791' (1'); and 8706-8717' (11'). Total of 23 feet. Pulled out with washer. Reshot 81' of perforations. Reran pushout washer to 8850' and blanked off. Checked perforations from 8844-8706'. Open perfs. as follows: 8844-8842' (2'); 8841-8836' (5'); 8834-8821' (13'); 8798-8791' (7'); 8747-8744' (5'); 8717-8706' (11'). Total of 43 feet. Pulled washer. Ran tubing, valves and packer as before. Set KV-30 packer at 8456'. Removed B.O.P. Installed tree. Put well on production.

6/17 75 BFPD; 75 BOPD circ. oil.

6/18 50 BFPD; 50 BOPD circ. oil.

6/19 15 BFPD; 7%; 14 BOPD.

6/22 30 BFPD; 13%; 26 BOPD.

6/28 22 BFPD; 10%; 20 BOPD.

6/29 22 BFPD; 10%; 20 BOPD.

7/17 26 BFPD; 15%; 22 BOPD.

FINAL REPORT

Casing Record 13 3/8" 54.5# c 823'  
 7" 23, 26, & 29# effec. to 8115'  
 (Section 8115-8145')  
 924'-5" 18# effec. to 8900'  
 WSO lap\*; WSO (Co.) 8496'  
 J.P. 4 h/ft 8706-8737'; 8742-8758'; 8767-8775';  
 8777-8784'; 8786-8798'; 8817-8844'  
 Reperf. (JP 4 h/ft) 8717-8843' at intervals  
 T.L.H. 7976'  
Ineffec. Casing Below Cmt. Pg. at 8900'  
 5" 18# c 9323'  
 WSO 4 h's 9006'\*  
 J.P. 4 h/ft 9043-9078'; 9148-9152'; 9175-9204'

\*Witnessed and approved by D.O.G.

Junk: (1) 467' - 7" ST'd (Rd. 1) 8145-8612'  
 (2) 292' - 5" ST'd (Rd. 1) 8582-8874'  
 (3) - 9 jts. 3 1/2" D.P. and 12 jts. 2 3/8" tubing inside (2)  
 all ST'd.

DIVISION OF OIL AND  
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AUG 3 1970

Hole Data: Rd. #1 and DE T.D. 9336'; Cmt. Pg. 8900'

Casing: 13 3/8" 54.5# c 823'  
7" 23, 26 & 29# effec. to 8115'  
(Section 8115-8145')  
924'- 5" 18# effec. to 8900'  
WSO lap\*  
WSO (Co) 8496'  
J.P. 4 h/ft 8817-8844'  
T.L.H. 7976'  
Ineffec. Casing Below Cmt. Pg. at 8900'  
423' - 5" 18# c 9323'  
WSO 4 h's 9006'\*  
J.P. 4 h/ft 9043-9078'; 9148-9152'; 9175-9204'

\*Witnessed and approved by D.O.G.

Tubing: 13' - distance from K.B. to ground level  
5' - landed below ground level  
7786' - 2 7/8", 8 RT, Rg. 2, EU Tbg. (256 Jts) incl. valves  
1' - 2 7/8" x 2 3/8" Xover  
126' - 2 3/8", 8 RT, Rg. 2, EU (4 Jts)  
6' - 2 3/8", 8 RT, pup joint  
9' - 2 3/8" MM mandrel w/R-20, 7/16" P, 960# valve  
499' - 2 3/8", 8 RT, EU Tbg. (16 Jts)  
4' - 2 3/8", 8 RT, pup joint  
8' - 2 3/8" x 5" x 18# Guiberson KV-30 packer (RHS) with  
Guide collar on bottom  
8457' - Overall, K.B. meas.

Valve	Press.	Depth
1-2 7/8" C mandrel w/J-20, 5/16" P	1000#	1,653'
2	990#	3,014'
3	980#	4,261'
4	970#	5,352'
5	960#	6,353'
6	950#	7,195'
7-2 3/8" MM as above	960#	7,946'
2 3/8" x 5" x 18# Guiberson KV-30 packer on bottom		8,456'

Junk: (1) 467' - 7" ST'd (Rd. 1) 8145-8612'  
(2) 292' - 5" ST'd. (Rd. 1) 8582-8874'  
(3) - 9 jts. 3 1/2" D.P. & 12 jts. 2 3/8" tubing inside (2)  
all ST'd.

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DEC 5 1969

INGLEWOOD, CALIFORNIA

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR GETTY OIL COMPANY FIELD ALISO CANYON  
 Well No. SFZU SS-10, Sec. 28, T. 3N, R. 16W, S.B. B. & M.  
 Date December 4, 1969 Signed Carl A. Nelson  
 P.O. Box 811, Ventura, Calif. 643-2154 Title Agent  
 (Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

HISTORY

7/14/69 C.P.S. moved in and rigged up to abandon the Frew Zone and perforate the Lower Sesnon Zone. Circulated the hole free of gas. Installed B.O.P. Measured out with tubing. Ran in open ended to 8859' with 1061' of 2 3/8" and 8049' of 2 7/8". Mixed 25 sax Class G cement premixed with .2% D-28 retarder. Preceded with 20 cu.ft. water and displaced with 273 cu.ft. salt water. C.I.P. 9:50 A.M. At 2:00 P.M. tagged cement at 9045. With 1061' of 2 3/8" tubing and 7958' of 2 7/8" tubing in the hole mixed 15 sax Class G cement and retarder. Equalized cement plug. C.I.P. at 4:45 P.M. Pulled out and laid down H-40 tubing. Ran back in with bit and scraper to 2300'.

7/15 Picked up 2 7/8" tubing and measured in. Tagged cement at 9031'. Pulled out. Laid down bit and scraper. Measured in open ended. Tagged cement at 9031'. Pulled up 300' and shut down for the night.

7/16 Ran back down to 9031'. Dropped through cement stringer and found hard cement at 9006'. Backscuttled hole clean. With 1061' of 2 3/8" tubing and 7969' of 2 7/8" tubing on the hook mixed 30 sax Class G cement retarded with .1% of D-28 retarder. Equalized cement plug with 270 cu.ft. salt water. Used 20 cu.ft. fresh water ahead of cement and 5 cu.ft. behind. C.I.P. at 10:45 A.M. Pulled tubing. Ran bit and scraper. Hit soft cement at 8646'. Cleaned out to 8746'. Pulled to T.L.H. and shut down for the night.

7/17 Ran back inside liner. Hit cement at 8746'. Cleaned out hard cement with power swivel to 8900'. Backscuttled clean. Changed over to lease crude (took 350 barrels). Pulled up to 2600' and shut down for the night.

7/18 Finished pulling tubing. Hydrotested in tubing, valves and packer. Removed BOP. Installed tree. Tested tree to 3700 psi. Rigged up and J.P'd 4 h/ft 8844' to 8817'. Tore out perforating equipment.

7/19-21 Rigged down and tore out hoist.

7/22 Gas lifted 40 BFPD; 17%; 33 BOPD.

7/23 Gas lifted 48 BFPD; 20%; 40 BOPD.

10/3 Gas lifted 4 BFPD; 50%; 2 BOPD.

10/22 Gas lifted 4 BFPD; 50%; 2 BOPD.

FINAL REPORT

## DIVISION OF OIL AND GAS

## REPORT ON PROPOSED OPERATIONS No. P. 169-1003

Mr. C. G. Nelson, Agent  
GETTY OIL COMPANY, OPERATOR  
P. O. Box 811  
~~XXXXXX~~ Ventura, California 93002

Inglewood, Calif.  
September 12, 1969

DEAR SIR:

(037-00040)

Your supplementary proposal to plug and alter casing Well No. "SFZU" SS-10,  
 Section 29, T. 3 N., R. 16 W., S. B. B. & M., Aliso Canyon Field, Los Angeles County,  
 dated Sept. 9, 1969, received Sept. 10, 1969, has been examined in conjunction with records filed in this office.  
 Present conditions as shown by the records and the proposal are as follows:

## THE PROPOSAL IS APPROVED PROVIDED:

1. Adequate pressure control equipment shall be installed and maintained in operating condition during all stages of perforating.
2. THIS DIVISION SHALL BE NOTIFIED TO WITNESS a production test within 10 days after the well has been placed on production.

WLI:es

cc - C. G. Nelson

BLANKET BOND.

S/w

F. E. KASLINE, State Oil and Gas Supervisor

By [Signature] Deputy

006

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL AND GAS**

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SEP 10 1969

**Supplementary Notice**

INGLEWOOD, CALIFORNIA

Ventura, Calif. September 9, 1969

DIVISION OF OIL AND GAS

Inglewood Calif.

A notice to you dated July 3, 1969, stating the intention to

To alter casing well No. SEZU SS-10  
(Drill, deepen, redrill, abandon) (037-00040)

Sec. 28, T. 3N, R. 16W, S.B. B & M Aliso Canyon Field,

Los Angeles County, should be amended because of changed conditions.

The present condition of the well is as follows:

Total depth Rd. T.D. 9336'; Cmt. Pg. 8900'

Complete casing record including plugs.

13 3/8" 54.5# c 823'; 7" 23, 26 & 29# effec. to 8115' (Section 8115-8145')  
1347'-5" 18# effec. to 8900'; WSO 5" x 7" lap\*

WSO (Co) 4 h's 8496' (verbal approval by John Matthews of DOG 6/69)

J.P. 4 h/ft 8817-8844'; T.L.H. 7976'

Ineffec. Casing Below Plug at 8900'

423'-5" 18# c 9323'; WSO 4 h's 9006'\*

J.P. 4 h/ft 9043-9078'; 9148-9152'; 9175-9204'

\*Witnessed and approved by D.O.G.

We now propose to perforate additional Sesnon Zone, J.P. 2 h/ft 8767-8798'

and return to production.

*Copy to well of int. to be done after casing*

MAP	MAP BOOK	CARDS	BOOK	FORMS	
			B	114 ARG	121 ARG

P.O. Box 811, Ventura, Calif.  
(Address)

643-2154  
(Telephone No.)

GETTY OIL (COMPANY) Co., Operator  
(Name of Operator)

By C. G. Nelson  
C.G. Nelson, Agent

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 169-720

Mr. C. G. Nelson, Agent  
GETTY OIL COMPANY, OPERATOR  
P. O. Box 811  
~~Agent for~~ Ventura, California 93002

Inglewood, Calif.  
July 22, 1969

DEAR SIR: (037-00040)

Operations at well No. "SFZU" SS-10, Sec. 29, T. 3 N, R. 16 W, S.B. B & M.  
Aliso Canyon Field, in Los Angeles County, were witnessed  
on July 15, 1969 Mr. G. Ledingham, Engineer, representative of the supervisor was present  
from 7:30 p.m. to 8:00 p.m. There were also present K. Morton & R. Jones, Drilling Foremen

Present condition of well: 13-3/8" cem. 823'; 7" cem. 8612', milled out 8115'-8145', side-  
tracked @ 8115'; 5-1/2" cem. 7976'-9323', perf. 9006' WSO, perf. 8496' Co. WSO, perfs.  
9043'-9078', 9148'-9152' & 9175'-9204'. TD 9336', plugged w/cem. 9110'-8646'.  
TD 1st hole 8877'.

The operations were performed for the purpose of testing the location and hardness of a cement  
plug placed from 9110' to 8646' in the process of plugging back.

Mr. ----- reported:  
MR. R. JOHNSON, ENGINEER, WAS PRESENT AT THE WELL FROM 1:45 P.M. TO 2:45 P.M. ON JULY  
13, 1969 AND MR. JONES REPORTED THAT on July 13, 1969, 25 sacks of cement was pumped  
into the hole through 2-7/8" tubing hanging at 9110'.  
THE ENGINEER NOTED THAT the cement plug at the reported depth of 9045' supported 1/20  
of the weight of the tubing.

MR. G. LEDINGHAM, ENGINEER, WAS PRESENT AT THE WELL FROM 7:30 P.M. TO 8:00 P.M. ON  
JULY 15, 1969 AND REPORTED THAT on July 15, 1969, 15 sacks of cement was pumped into  
the hole through 2-7/8" tubing hanging at 9006'.  
THE ENGINEER NOTED THAT the cement plug at the reported depth of 8646' supported 1/15  
of the weight of the tubing.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 8646' ARE APPROVED.

GL:nw

C.O. to 8900'

cc C. G. Nelson

F. E. KASLINE  
State Oil and Gas Supervisor

By John F. Matthew, Jr. Deputy  
WKA

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 169-763

Mr. C. G. Nelson, Agent  
GETTY OIL COMPANY, OPERATOR  
P. O. Box 811  
~~169-763~~ Ventura, California 93002

Inglewood, Calif.  
July 10, 1969

DEAR SIR:

(037-00040)

Your proposal to plug & alter casing Well No. "SFZU" SS-10  
Section 29, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon Field, Los Angeles County,  
dated 7/3/69, received 7/8/69, has been examined in conjunction with records filed in this office.  
~~Present conditions as shown by the records and the proposal are as follows:~~

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.  
7" cem. 8612', sidetracked @ 8115'. TD 1st hole 8877'.

With reference to your notice our decision is as follows:

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS:

1. The location and hardness of the cement plug at 8900'.
2. A production test within 10 days after the well has been placed on production.

WLI:nw

cc C. G. Nelson

Blanket Bond

*History in*

F. E. KASLINE, State Oil and Gas Supervisor

By *John F. Matlock*, Deputy  
ces

DIVISION OF OIL AND GAS

JUL 8 1969

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

INGLEWOOD, CALIFORNIA

Ventura, Calif. July 3, 19 69

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. SFZU SS-10

(Cross out unnecessary words)

Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- 1. Total depth. Rd. T.D. 9336'
- 2. Complete casing record, including plugs:
  - 13 3/8" 54.5# c 823'
  - 7" 23, 26 & 29# effec. to 8115' (Section 8115-8145')
  - 1347' -5" 18# c 9323'
  - WSO 5" x 7" lap\*; 4 h's 9006'\*
  - WSO (Co.) 4 h's 8496'
  - J.P. 4 h/ft 9043-9078'; 9148-9152'; 9175-9204'
  - T.L.H. 7976'

\*Witnessed and approved by D.O.G.

3. Last produced. Jan. 23, 1963: 222 Bbls. Salt Water  
(Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)

The proposed work is as follows: BRIDGE OFF FREW ZONE WITH CEMENT: PERFORATE LOWER SESNON ZONE

- 1. With tubing at 9125', bridge off Frew Zone with 25 sax cement. Cleanout to 8900' (top of cement plug).
- 2. Land 2 7/8" tubing at 8458' (including valves and packer).
- 3. J.P. 4 h/ft 8817-8844' with thru-tubing jets.
- 4. Return to production.

*Plug & alter casing*

MAP	MAP BOOK	CARDS	BOND	FORM#
				114 121
				ARC ARC

P.O. Box 811, Ventura, Calif.  
(Address)

643-2154

(Telephone No.)

GETTY OIL COMPANY

(Name of Operator)

By *C. G. Nelson*  
C. G. Nelson, Agent

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

830 North La Brea Avenue  
Inglewood, California

September 23, 1968

Mr. Mr. C. G. Nelson, Agent  
Getty Oil Co., Operator  
P. O. Box 811  
Agent for Ventura, California 93001

DEAR SIR:

Your request dated letter dated August 26, 1968, relative to change in designation of well(s) in Sec. 28, 29, T. 3 N., R. 16 W., S. B. B. & M., Aliso Canyon field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

"\* \* \* The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

See attached list.

ag

cc: F. E. Kasline  
Production Dept.  
Conservation Committee

F. E. KASLINE  
~~E. R. MURRAY AARON~~  
State Oil and Gas Supervisor

By *Wm. C. Bailey*  
Deputy Supervisor

Proposed Changes in Designation

Sec. 28:

<u>Old Designation</u>	
"Standard-Sesnon 1"	1
"	2
"	3
"	5
"	6
"	7
"	8
"	9
"	11
"	13
"	14
"	16
"	17
"	24
"	25
"	29
"	30
"	31
"	44

New Designation

"SFZU" SS-1	(037-00754)
" SS-2	(037-00755)
" SS-3	(037-00756)
" SS-5	(037-00758)
" SS-6	(037-00759)
" SS-7	(037-00760)
" SS-8	(037-00761)
" SS-9	(037-00762)
" SS-11	(037-00763)
" SS-13	(037-00765)
" SS-14	(037-00766)
" SS-16	(037-00768)
" SS-17	(037-00769)
" SS-24	(037-00770)
" SS-25	(037-00776)
" SS-29	(037-00041)
" SS-30	(037-00780)
" SS-31	(037-00781)
" SS-44	(037-00788)

Sec. 29:

<u>Old Designation</u>	
"Standard-Sesnon 1"	4
"	10
"	12

New Designation

"SFZU" SS-4	(037-00757)
" SS-10	(037-00040)
" SS-12	(037-00764)

P-11  
006

THE NAME TIDEWATER OIL COMPANY APPEARING HEREON IS HEREBY AMENDED TO READ GETTY OIL COMPANY (TIDEWATER OIL COMPANY) *Getty Oil Co. Oper.*  
WESTERN DIVISION

### CHANGE OF WELL STATUS REPORT

SECTION <b>(28) 29</b>	TOWNSHIP <b>3N</b>	RANGE <b>16W</b>	& M <b>S.B.</b>	LOCATION <b>1670.68' South &amp; 7787.62' West from Station 84</b>
DISTRICT <b>Coastal</b>		AREA <b>Ventura</b>	LEASE & WELL <b>"SFZU" SS-10</b>	FIELD <b>Aliso Canyon</b>
COUNTY AND STATE <b>Los Angeles - California</b>			OPERATOR <b>Getty Oil Company</b>	TOC FILE NO. <b>-</b>
				TOC WORKING INT. <b>50%</b>

TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	TYPE OF COMPLETION <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE	OTHER PRODUCING WELLS ON LEASE OR UNIT <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input type="checkbox"/> OIL	<input type="checkbox"/> GAS
--	--	---	------------------------------	------------------------------

DATE OF CHANGE <b>7-17-69</b>	REASON FOR STATUS CHANGE	METHOD OF COMPLETION
<input type="checkbox"/> OIL COMPLETION (FIRST FORMATION OIL PRODUCED)	<input type="checkbox"/> RESUMPTION OF PRODUCTION	<input type="checkbox"/> PUMP
<input type="checkbox"/> GAS COMPLETION	<input type="checkbox"/> CESSATION OF PRODUCTION	<input checked="" type="checkbox"/> GAS LIFT
<input checked="" type="checkbox"/> RE-COMPLETION	<input type="checkbox"/> IDLE	<input type="checkbox"/> FLOW
<input type="checkbox"/> INITIAL PRODUCTION	<input type="checkbox"/> PLUGGED & ABANDONED	<input type="checkbox"/> INJECTION
		WATER _____ GAS _____

WELL DATA				PRODUCTION TEST DATA								
PRODUCING ZONE	PERFS. (SI, GP, IP)	PRODUCTION INTERVAL FROM	TO	BOPD	GAS MCFFD	CHOKE /64"	TP	CP	TRAP PRESSURE	GOR OR CONDENSATE YIELD	CUT	API GRAVITY
Lower Sesnon	JP	8817	8844	0	133	26"	250	500	250	-	-	-

IF CHANGE OF STATUS IS DUE TO CESSATION OF PRODUCTION, WHAT ARE THE PLANS TO RESTORE PRODUCTION, AND ON WHAT DATE IS PRODUCTION EXPECTED TO BE RESTORED?

DIVISION OF OIL AND GAS  
RECEIVED  
DEC 5 1969

REASON FOR PLUG & ABANDONMENT  
**INGLEWOOD, CALIFORNIA**

Rd. DE TOTAL DEPTH: **9336'** PLUGGED DEPTH: **8900'** D.F. ELEVATION: **2628.92'** POINT OF DEPTH MEASUREMENT: **13'** FT. ABOVE GROUND

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING'	NEW OR SECOND HAND	GRADE	SIZE OF HOLE DRILLED	NUMBER OF SACKS CEMENT	W S O DEPTHS	CASING PACKER DEPTHS (IF ANY)
13 3/8"	823'	Surface	54.5#						
7"	Effec. to 8115'	Surface	23, 26 & 29#						
* 5"	9323'	7976'	18#						

\*Ineffec. below Cmt. Pg. at 8900'  
JUNK: 467' - 7" ST'd 8145-612'; 292' - 5" ST'd 8582-874'; 9 Jts. 3 1/2" DP & 12 Jts 2 3/8" Tbg. in 5"  
REMARKS: **Cmt. Bridged off Frew Zone, Perforated Lower Sesnon Zone**

SUBMITTED BY <i>Carl G. Williams</i>	TITLE <b>Area Engineer</b>	DATE <b>August 6, 1969</b>
---	-------------------------------	-------------------------------

DISTRIBUTION: DISTRICT PRODUCTION MANAGER, DIVISION PRODUCTION MANAGER, DIVISION EXPLORATION MANAGER, PRODUCTION ACCOUNTING, LEASE RECORDS-PRODUCING PROP-ERTIES, DIVISION OF OIL & GAS (COMPLETIONS, RECOMPLETIONS AND ABANDONMENTS ONLY), CONSERVATION COMMITTEE OF CALIFORNIA OIL PRODUCERS (COMPLETIONS AND RE-COMPLETIONS ONLY).

SECTION 21 (28) TOWNSHIP 3N RANGE 16W S.B. LOCATION 1670.68' South and 7100.62' West from Station #84  
 DISTRICT Coastal AREA Los Angeles Basin LEASE & WELL Standard Sesnon 1" #10 FIELD Aliso Canyon  
 COUNTY AND STATE Los Angeles County, California OPERATOR Tidewater Oil Company TOC FILE NO. TOC WORKING INT. 50%  
 TYPE OF WELL  OIL  GAS TYPE OF COMPLETION  SINGLE  MULTIPLE OTHER PRODUCING WELLS ON LEASE OR UNIT  NO  YES  OIL  GAS RECEIVED  
 DATE OF CHANGE Jan. 15, 1963 REASON FOR STATUS CHANGE METHOD OF COMPLETION  
 METHAR OF 1963

OIL COMPLETION (FIRST FORMATION OIL PRODUCED)  RESUMPTION OF PRODUCTION  
 GAS COMPLETION  CESSATION OF PRODUCTION  
 RE-COMPLETION and  IDLE  
 INITIAL PRODUCTION  PLUGGED & ABANDONED  
 PUMP  
 GAS LIFT  
 FLOW  
 INJECTION  
 WATER \_\_\_\_\_ GAS \_\_\_\_\_

WELL DATA				PRODUCTION TEST DATA								
PRODUCING ZONE	PERFS. (sl, sp, ip)	PRODUCTION INTERVAL FROM	TO	BOPD	GAS MCF/D	CHOKE /64"	TP	CP	TRAP PRESSURE	GOR OR CONDENSATE YIELD	CUT	API GRAVITY
Frew	SL	9043'	9204'	(See Remarks)								

IF CHANGE OF STATUS IS DUE TO CESSATION OF PRODUCTION, WHAT ARE THE PLANS TO RESTORE PRODUCTION, AND ON WHAT DATE IS PRODUCTION EXPECTED TO BE RESTORED?

Remarks: Prior to deepening, well had been on N.I.O. status due to excessive G.O.R., last produced in 1960. Following deepening operations, the well pumped 246 BOPD, salinity tests indicating production to be all Frew zone water. Well to remain on N.I.O. status, pending possible use in Sesnon Gas Storage project.

TOTAL DEPTH: 9336' (DE) PLUGGED DEPTH: - GROUND ELEVATION: 2622' POINT OF DEPTH MEASUREMENT: 7 FT. ABOVE GROUND

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING	NEW OR SECOND HAND	GRADE	SIZE OF HOLE DRILLED	NUMBER OF SACKS CEMENT	W S O DEPTHS	CASING PACKER DEPTHS (IF ANY)
13-3/8"	823'	Surface	54.5#	New	-	17-1/4"	500	-	-
7"	8612' 3/4"	Surface	23, 26 & 29#	New	-	11"	500	-	-
5"	9323'	7976'	18#	New	-	6"	133	5"x7" Lap 4 Hg 9005'	

JUNK: (\* Ineffective below Rd. plug) Junk: (1) 467'-7" STD 8145'-8612': (2) 292'-5" STD 8582'-8874': (3) 9 Jts. 3 1/2" D.P. & 12 Jtz. 2-3/8" Tbg., Inside Junk No. 2. Rd. and Deepened to Frew zone, presently N.I.O.

REMARKS: SUBMITTED BY *J. M. Cadden* TITLE District Engineer DATE February 18, 1963

DIVISION OF OIL AND GAS

MAR 5 1963

History of Oil or Gas Well

INGLEWOOD, CALIFORNIA

OPERATOR TIDEWATER OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD SESNON 1-#10, Sec. (28), T. 3N, R. 16W, S.E. B. & M.

Date February 28, 19 63

Signed

*J. M. Cadden*  
J. M. Cadden

P.O. Box #811, Ventura, Calif. 643-2154  
(Address) (Telephone Number)

Title Agent

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

1962

HISTORY

Date	History
10/29-11/2	Formed pumping unit foundation. Poured foundation. Killed well with salt water.
11/3-5	Waiting on contractor.
11/6	Terminal Drilling, contractor, moved in. While rigging up dropped derrick. Final report until operations resumed.
11/21-29	Contractor rigged up. Removed tree, installed BOPE. Pulled and laid down tubing. After picking up 267 jts. of drill pipe, drill pipe dropped through elevators. Recovered 188 joints drill pipe. Ran string shot to 8263' and backed off. (Fish remaining in hole below 8263' - 9 jts. of 3 1/2" 13.30# drill pipe, 12 jts. of 2 3/8" 8 rd. EU tubing). Pulled and laid down drill pipe. Ran section mill and milled section in 7" 29# casing 8115-8145'.
11/30-12/1	Ran gyroscopic survey to 8100'. Underreamed milled section to 11". With 3 1/2" 13.30# drill pipe hung at 8225', equalized 25 sax Class A cement premixed with 0.1% HR-7 retarder (118# slurry), displaced cement with 340 cu.ft. salt water. Pulled up to 8145', backscuttled 10 cu.ft. cement. Continued to backscuttle for 1 hour. Pulled up to 8135'. With pipe hung at 8135', equalized 45 sax Class A cement premixed with 1350# Hi-Dense and 4# HR-7 retarder. Preceded cement with 10 cu.ft. water, displaced with 326 cu.ft. salt water. Located top of cement at 7973'. Changed over from water to 64# oil mud. After 13 hours cleaned out soft cement at 8080'. Waited an additional 5 hours and cleaned out extremely hard cement 8080'-8124'.
12/2-30	Set whipstock #1 at 8124', oriented due North and drilled 6" hole to 8215'. Mud weight 64; viscosity 190. Set whipstock #2 at 8205, oriented N 60 W and drilled 6" hole from 8205' to 9336' (T.D.). Mud weight 67; viscosity 170. Ran Induction, Gamma-ray, and Sonic logs 9334-8115'.
12/31	Ran 31 jts. of 5" 18# hydril blank liner. Hit fill at 9326'. Hung liner at 9323'. T.L.H. 7976', insert baffle at 9278'. Cemented liner with 133 sax Colton Class D cement (118# slurry). Bumped plug with 474 cu.ft. mud. Ran bit and scraper to T.L.H. found no cement. Closed rams, pressured to 1500# for 15 minutes, O.K. Liner detail top to bottom: 2.65' - Burns plain hanger 1343.68' - 5" 18# blank .85' - Howco cement guide shoe 1347.18' - Overall

1963

HISTORY

- 1/1-4 Ran J.C.T. Set packer at 7921' with tail to 7941'. Had medium blow for 1 hour. Pulled loose at 9:00 A.M. Recovered 850' rise ( 9 1/3 stands consisting of 6 stands of drilling fluid, 3 1/3 stands water). Ran and set full bore at 7872', pumped fluid away at 6 cu.ft./minute at 2700#. Mixed 50 sax Class N cement preceded with 15 cu.ft. diesel, 20 cu.ft. water. Displaced with 20 cu.ft. water, 312 cu.ft. mud. MP 3200#; FP 1900#. Held 1900# 15 minutes. Ran in to top of liner, found no cement. Ran J.C.T. on 3 1/2" drill pipe with no cushion to test WSO on lap of 5" x 7". Set packer at 7916' with tail at 7936'. Had medium to faint blow for 1 hour test. Recovered 40' drilling fluid. WSO witnessed and approved by D.O.G. Cleaned out cement stringer at 7984', hard cement 9068' to 9178', open 9178 to baffle at 9278'. Ran Neutron and Cement bond logs, tool stopped at 8128'. Found bond log instrument too large for I.D. of pipe. Ran Neutron log to bottom. Ran cement bond log.
- 1/5 J.P.'d 4-1/2" h/ft 9148-9152'. Ran J.C.T. on 1148' of 2 7/8" tubing and 7932' of 3 1/2" 13.3# R.I.P. drill pipe with 1/2" bean in tester, no cushion to test holes. Set packer at 9100', tail to 9120'. Opened tester, observed light blow decreasing to dead in 2 hours 50 minutes. Dead balance of 3 hour 5 minute test. Recovered 150' rise, top single was water, remaining 120' oil base mud. IHP 4503, IFP and FFP 48#; FHP 4489. J.P.'d 4 holes at 8496'. Ran Shoot-n-test as above. Set packer at 8450', tail to 8473'. Observed faint blow for 8 minutes, with occasional puffs to dead for balance of 1 hour test. Lowered tubing to 9027' in an attempt to locate collars. Pulled out, had 70' rise of mud. IHP 4350#, IFP and FFP 0#, FHP 4300#.
- 1/6-7 J.P.'d 4 holes at 9006. Ran C.C.T. as above. Set packer at 8951', tail to 8966'. Opened tool, observed faint blow to dead in 16 minutes, dead for balance of 1 hour test. Recovered 60' rise of mud. WSO witnessed and approved by D.O.G. J.P.'d 4 h/ft 9204-9175'; 9078-9043'. Ran 7815' of 2 7/8" and 1061' of 2 3/8" tubing with gas anchor and pump shoe at 8880'. Removed BOPE, installed tree. Released rig 7:00 P.M.
- 1/8-11 Contractor rigged down, cleaned up lease, moved out.
- 1/12 -16 Installed and grouted pumping unit. Ran bottom hole pump and rods. Well on pump at 2:00 P.M. 1/15/63 In 16 hours pumped 138 bbls. circulating oil.
- 1/17 Pumped 252 BFPD; no cut. Circulating oil.
- 1/18 Pumped 246 BFPD; 100% salt water, no gas.
- 1/19-21 Pumping an estimated 245 BFPD; 100% water.
- 1/22 Pumped 244 BFPD; 100% water.
- 1/23 Pumped 248 BFPD; 100% salt water.
- 1/24 Pumped 222 Bbls. water. Shut well in.

Tubing Record

7815' - 2 7/8" Tubing w/gas anchor and  
1061' - 2 3/8" pump shoe at 8880'

Casing Record

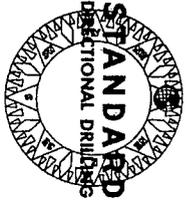
13 3/8" 54.5# c 823'  
7" 23, 26 & 29# effec. to 8115'  
Section 8115-8145'  
1347' -5" 18# c 9323'  
WSO 5" x 7" Lap \*, 4 holes 9006' \*  
J.P. 4 holes 8496'  
J.P. 4 h/ft 9043-9078'; 9148-9152';  
9175-9204'  
T.L.H. 7976'  
\* Witnessed and approved by D.O.G.

Junk: ST'd Rd. No. 1

1. 467' - 7" ST'd 8145-8612'
2. 292' - 5" ST'd 8582-8874'
3. 9 jts. 3 1/2" D.P. & 12 jts. 2 3/8" tubing inside Junk No. 2

T.D.: (DE) 9336'

Zone: Frew  
Log: Submitted

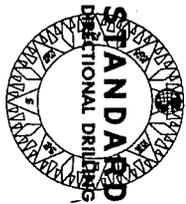


COMPANY TIDEWATER OIL CO. OPERATOR  
 " Bank " WELL SESSION 12-10

LOCATION ALIBO CANYON

DATE \_\_\_\_\_

Measured Depth	Drift Angle	Vertical Depth	Drift Feet	Drift Direction	COORDINATES				REMARKS	
					North	South	East	West		
5100	0°45'			S 59° W		34	38	49	16	
5200	0°30'			S 36° W		35	14	49	60	
5300	0°30'			S 27° W		35	92	50	00	
5400	0°30'			S 32° W		36	66	50	46	
5500	0°15'			S 10° W		37	09	50	54	
5600	0°30'			S 05° E		37	96	50	46	
5700	0°30'			S 30° E		38	72	50	02	
5800	0°45'			S 72° E		39	12	48	78	
5900	0°30'			S 86° E		39	06	48	91	
6000	1°00'			N 72° E		38	52	46	25	
6100	1°00'			N 77° E		38	13	44	55	
6200	1°00'			N 81° E		37	86	42	83	
6300	1°00'			N 70° E		37	26	41	19	
6400	1°00'			N 66° E		36	55	38	60	
6500	0°45'			N 66° E		36	02	38	40	
6600	0°45'			N 60° E		35	37	37	27	
6700	0°30'			N 39° E		34	69	36	72	
6800	0°15'			N 30° E		34	31	36	50	
6900	0°15'			N 28° E		33	93	36	30	
7000	0°15'			N 20° E		33	52	36	15	
7100	0°15'			N 38° W		33	18	36	42	
7200	0°15'			N 11° W		32	75	36	50	
7300	0°00'			VERT.		32	33	36	50	
7400	0°15'			N 16° W		32	33	36	62	
7500	0°00'			VERT.		32	33	36	62	

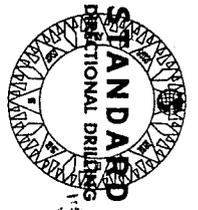


COMPANY TIDEWATER OIL CO.  
 WELL SESSION 1410  
 LOCATION ALISO CANYON  
 DATE \_\_\_\_\_

Measured Depth	Drift Angle	Vertical Depth	Drift Feet	Drift Direction	COORDINATES				REMARKS	
					North	South	East	West		
7600	0°15'			S 40° W		32	66	36	90	
7700	0°15'			N 89° W		32	65	35	46	
7800	0°00'			VERT.		32	65	36	46	
7900	0°15'			N 77° E		32	77	36	04	
8000	0°15'			S 60° W		32		35	66	
8100	0°15'	8099	38	N 47° E		32	47	35	34	Multi-shot survey from surface to 8100'. Single shot survey 8100' to TD.
8124	0°00'			VERT.		32	47	35	34	
8132	2°45'		0	N 60° E		32	28	35	01	
8138	3°30'		0	N 61° E		32	10	34	68	
8147	4°00'	8146	34	N 63° E		31	81	34	12	
8190	4°00'		3	N 60° E		30	31	34	52	
8215	3°00'		1	N 40° E		29	30	30	68	
8230	2°45'		0	N 25° E		28	56	30	38	
8240	2°45'		0	N 22° E		28	20	30	20	
8250	3°00'	8249	17	N 18° E		27	71	30	04	
8256	2°45'		0	N 17° E		27	43	29	96	
8266	3°00'		0	N 20° E		26	94	29	78	
8276	3°45'		0	N 29° E		26	37	29	46	
8310	4°45'		2	N 08° E		23	58	29	07	
8323	4°45'	8321	97	N 08° E		22	51	28	92	
8353	5°30'		2	N 06° E		19	64	28	62	
8420	8°00'		9	N 02° W		10	33	28	94	
8486	10°00'		11	N 06° W				30	14	
8515	12°00'		6	N 03° W				30	45	
8607	14°15'	8600	72	N 03° W				29	63	

29-3-16

PACIFIC LIGHTING SERVICE CO.  
 "SFZU" SS-10  
 Sec. 29-3N-16W ALISO CANYON



GETTY OIL CO, Operator  
 COMPANY (TIDEWATER OIL CO. (Operator))  
 WELL SESSION 15"10(HD)  
 LOCATION ALISO CANYON  
 DATE JAN. '63

Measured Depth	Drift Angle	Vertical Depth	Drift Feet	Drift Direction	COORDINATES				REMARKS	
					North	South	East	West		
100	0°15'			VERT. W						
200	0°30'			S 83° W	0	03		0	43	
300	0°30'			S 86° W	0	11		1	30	
400	0°30'			N 81° W	0	06		2	17	
500	0°30'			S 74° W	0	29		3	01	
600	0°45'			S 48° W	1	17		3	98	
700	0°45'			S 56° W	1	90		5	08	
800	0°45'			S 55° W	2	65		6	14	
900	0°45'			S 63° W	3	24		7	31	
1000	0°45'			S 83° W	3	40		8	61	
1100	0°45'			S 29° W	4	54		9	24	
1200	0°30'			S 58° W	5	00		9	98	
1300	0°30'			S 31° W	5	95		10	43	
1400	1°00'			S 72° W	6	29		11	09	
1500	1°00'			S 68° W	6	94		13	61	
1600	1°00'			S 87° W	7	03		15	35	
1700	1°00'			S 63° W	7	82		15	90	
1800	1°00'			S 67° W	8	50		18	51	
1900	1°00'			S 48° W	9	67		19	81	
2000	0°45'			S 66° W	10	20		21	01	
2100	1°00'			S 53° W	11	25		22	40	
2200	0°45'			S 24° W	11	45		22	93	
2300	0°45'			S 41° W	12	44		23	79	
2400	0°45'			S 60° W	13	09		23	92	
2500	0°45'			S 48° W	14	97		24	89	

INGLEWOOD, CALIFORNIA

JAN 18 1968

RECEIVED



COMPANY TIDEWATER OIL CO.  
*Standard*  
 WELL SESNON 1410

LOCATION ALIBO CANYON

DATE \_\_\_\_\_

Measured Depth	Drift Angle	Vertical Depth	Drift Feet	Drift Direction	COORDINATES				REMARKS		
					North	South	East	West			
2600	1°00'			S 49° W		16	11		27	21	
2700	0°30'			S 46° W		16	72		27	84	
2800	1°00'			S 65° W		17	46		29	42	
2900	0°30'			S 50° W		18	02		30	09	
3000	0°45'			S 78° W		18	29		31	37	
3100	0°45'			S 44° W		19	23		32	28	
3200	0°30'			S 44° W		19	86		32	89	
3300	1°00'			S 52° W		20	93		33	29	
3400	0°45'			S 43° W		21	89		34	16	
3500	0°45'			S 25° W		23	08		35	71	
3600	0°45'			S 49° W		23	94		36	70	
3700	0°30'			S 46° W		24	55		37	33	
3800	0°15'			S 53° W		24	81		37	68	
3900	0°15'			S 83° W		24	85		38	11	
4000	0°15'			S 61° W		25	06		38	49	
4100	0°15'			S 24° W		25	46		38	67	
4200	0°15'			S 32° W		25	83		38	90	
4300	0°15'			S 34° W		26	19		39	14	
4400	0°30'			S 46° W		26	80		39	77	
4500	0°45'			S 34° W		27	89		40	50	
4600	1°00'			S 44° W		29	15		41	71	
4700	1°15'			S 57° W		30	34		43	54	
4800	1°15'			S 63° W		31	33		43	48	
4900	1°00'			S 46° W		32	54		45	74	
5000	1°00'			S 48° W		33	71		46	04	



COMPANY TIDENWATER OIL CO.  
 WELL SESONON 1-10

LOCATION ALISO CANYON

DATE \_\_\_\_\_

Measured Depth	Drift Angle	Vertical Depth	Drift Feet	Drift Direction	COORDINATES				REMARKS	
					North	South	East	West		
8665	15°30'	8656	61	N 01° W	45	21		31	89	
8750	17°30'	8737	68	N 01° W	70	77		31	90	
8845	21°00'	8826	37	NORTH	104	81		31	90	
8883	21°00'	8861	85	NORTH	118	43		31	90	
8921	21°30'	8897	44	NORTH	131	74		31	90	
8955	20°30'	8929	29	N 01° W	143	65		32	11	
9039	19°00'	9008	71	N 04° E	170	93		27	79	
9106	19°00'	9072	06	N 05° E	192	66		25	89	
9151	18°30'	9114	73	N 05° E	206	89		24	65	
9190	18°00'	9151	82	N 04° E	218	91		23	81	
9264	18°00'	9222	20	N 05° E	241	70		21	81	
9336	17°45'	9290	77	N 07° E	263	48		19	13	

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS - LOS ANGELES, CALIFORNIA

Operator THE WYLLIE ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. STANLEY RD. SECTION 01-10 Sec. 29, T. 3 N, R. 15 W, S. 1. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0'	900'		Drilled		Sand and shale
900'	910'		"		Shale
910'	4615'		"		Sand and shale
4615'	5118'		"		Shale
5118'	5185'		"		Shale streaks of sand
5185'	5235'		"		Shale
5235'	5593'		"		Sand and shale
5593'	5624'		"		Shale
5624'	6315'		"		Sand and shale
6315'	6320'		"		Hard sand
6320'	6377'		"		Hard sand and shale
6377'	6477'		"		Hard sandy shale
6477'	6916'		"		Sand and shale
6916'	7002'		"		Hard sandy shale
7002'	8253'		"		Sand and shale
8253'	8256'		"		Shale
8256'	8280'		"		Hard sandy shale
8280'	8315'		"		Hard shale
8315'	8347'		"		Hard sand and shale
8347'	8565'		"		Hard shale
8565'	8612'		"		Sand and shale
8612'	8617'		"		Shale
8617'	8624'		Cored		Siltstone
8624'	8674'		"		Oil sand
8674'	8723'		"		Oil sand streaks of shale
8723'	8774'		"		Siltstone streaks of oil sand.
8774'	8875'		"		Siltstone
8875'	8877'		"		Hard zone conglomerate

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
					14

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL AND GAS**

**Report on Test of Water Shut-off**

(FORMATION TESTER)

No. T 163-56

Mr. James M. Cadden  
Box 811  
Ventura, California  
Agent for TIDEWATER OIL COMPANY, OPERATOR

Inglewood Calif.  
January 15, 1963

DEAR SIR:

Your well No. "Standard-Sesnon 1" 10, Sec. 29, T. 3 N, R. 16 W, S. B. B & M. Aliso Canyon Field, in Los Angeles County, was tested for water shut-off on January 5, 1963. Mr. R. Tudor, Engineer, designated by the supervisor was present from 7:00 p.m. to 8:00 p.m. as prescribed by law; there were also present P. Gundelfinger, Engineer

Shut-off data: 5 in. 18 lb. casing was XX cemented XXXXXXXXXX at 9323 ft. on December 29, 1962 in 6 in. hole with 133 ~~sacks~~ sacks of cement

Casing record of well: 13-3/8" cem. 823'; 7" cem. 8612', window 8115'-8145'; 5" cem. 7976' - 9323', perf. 8496', perf. 9006', W.S.O.; T.D. (present hole) 9336'; T.D. (1st hole) 8877'.  
calculated to fill behind casing to 6603 ft. below surface.

Present depth 9336 ft. cmt. bridge 9323 ft. to 9278 ft. Cleaned out cmt. 9068 ft. to 9278 ft. for test. A Cook tester was run into the hole on 3-1/2 in. drill pipe ~~tubing~~ \* with XXXX ft. of water-mud cushion, and packer XX set at 8951 ft. with tailpiece to 8966 ft. Tester valve, with 1/2 in. bean, was open for one hr. and XXXX min. During this interval there was a faint 16 minute blow and no blow thereafter.

Mr. Gundelfinger reported: \* and 2-7/8" tubing

1. The 5" casing was jet-perforated with four 1/2" holes at 8496'.
2. Seventy feet of drilling fluid was found above the tester.
3. The 5" casing was jet-perforated with four 1/2" holes at 9006'.

THE ENGINEER NOTED:

1. When the drill pipe and tubing was removed, 60' of drilling fluid was found above the tester.
2. The pressure bomb chart indicated that the tester tool functioned properly.

THE 5" SHUT-OFF AT 9006' IS APPROVED.

*K/S*

RT:omh

cc Mr. Cadden  
Company

E. H. MUSSER  
State Oil and Gas Supervisor

By Allen C. Bailey Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## Special Report on Operations Witnessed

No. T 163-55Mr. James M. Cadden  
Box 811  
Ventura, California  
Agent for TIDEWATER OIL COMPANY, OPERATORInglewood Calif.  
January 15, 1963

DEAR SIR:

Operations at well No. "Standard-Seson 1" 10, Sec. 29, T. 3 N, R. 16 W, S. BB & M.  
Aliso Canyon Field, in Los Angeles County, were witnessed  
on January 2, 1963 Mr. R. Tudor, Engineer, representative of the supervisor was present  
from 6:30 p.m. to 7:10 p.m. There were also present O. Welch, Drilling ForemanPresent condition of well: 13-3/8" cem. 823'; 7" cem. 8612', window 8115'-8145'; 5" cem.  
7976'-9323'; T.D. (present hole) 9336'; T.D. (1st hole) 8877'.The operations were performed for the purpose of demonstrating that no fluid has access to the  
well between the 7" and 5" casings.Mr. Welch reported:

1. Three and one-half inch drill pipe and 2-3/8" tubing was left in the first hole from 8877' to 8263'.
2. The 7" casing was milled out from 8115' to 8145'.
3. On November 29, 1962, 70 sacks of cement was pumped into the hole through 3-1/2" drill pipe hanging at 8233', filling to 7973'.
4. Cement was drilled out of the 7" casing from 7973' to 8124' and a whipstock was set at 8124'.
5. A 6" hole was redrilled from 8124' to 9336'.
6. On December 29, 1962, 1347' of 5", 18 lb. casing was cemented at 9323' with 133 sacks of cement, calculated to fill behind the casing to 6603'.
7. On December 31, 1962, a retrievable cement retainer was set at 7873', and the annulus between the 7" and 5" casings was recemented with 50 sacks of cement.
8. A Johnston tester was run into the hole on 3-1/2" drill pipe and 2-7/8" tubing, and the packer was set at 7916' with the tailpiece to 7936'. The tester valve, with 1/2" bean was open for one hour. During this interval there was a medium blow decreasing to a faint blow at the end of the test.

## THE ENGINEER NOTED:

1. When the drill pipe and tubing was removed, 40' of drilling fluid was found above the tester.
2. The pressure bomb chart indicated that the tester tool functioned properly.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED as indicating that no fluid has access to the well from between the 7" and 5" casings.

RT:omh  
cc Mr. Cadden  
CompanyE. R. MURRAY-AARON  
State Oil and Gas SupervisorBy [Signature] Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 162-1018

Mr. James M. Cadden  
P. O. Box 811  
Ventura, California  
Agent for TIDEWATER OIL COMPANY, OPERATOR

Inglewood Calif.  
November 2, 1962

DEAR SIR:

Your proposal to redrill Well No. "Standard-Sesnon 1" 10  
Section 29, T. 3 N., R. 16 W S B.B. & M., Aliso Canyon Field, Los Angeles County,  
dated Oct. 31, 1962, received Nov. 1, 1962, has been examined in conjunction with records filed in this office.  
Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE:  
7" cem. 8612', W.S.O.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 8877'
2. Complete casing record.  
13 3/8" 54.5# c 823'  
7" 23, 26 & 29# c 8612'  
292' -5" 18# L 8874'  
Perfs: 8615-8874' (80 M, 2" slots, 12 rows, 6" centers)  
Scab Cemented 8615-8671'; 8695-8734'  
T.L.H. 8582'
3. Last produced. 1960: Idle, due to excessive GOR (Sesnon Zone)  
(Date) (Net Oil) (Gravity) (Cut)"

PROPOSAL

"The proposed work is as follows: DEEPEN TO FREW ZONE:

1. Equalize 30 sacks cement on bottom\*.
2. Mill section in 7" casing from 8115'-8145'; plug back with 50 sax cement. Set whipstock and redrill to 9300' ±.
3. Cement 5" liner at 9300'; T.L.H. 8000'.
4. Establish WSO on lap \*, 4 holes at 8600' and 8865' \*.
5. J.P. 4 h/ft 8900-9260'.
6. Return well to production.

\* To be witnessed & approved by D.O.G. "

DECISION

THE PROPOSAL IS APPROVED PROVIDED:

1. Mud fluid consistent with good drilling practice shall be used, and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. The cement plug proposed in item No. 1 shall extend from 8874' to 8482' or above.
4. THIS DIVISION SHALL BE NOTIFIED:
  - a. To inspect the installed blowout prevention equipment before milling the section in the 7" casing.
  - b. To witness the location and hardness of the cement plug at 8482' in addition to the other tests proposed.

JLZ:omk

cc James M. Cadden  
Prod. Dept. - Tidewater Oil Co.

*gunbeltfinger/zubert, 11-27-62. Can't get junk  
3 1/2" tubing out of hole. Top of 8265. OK to  
E. R. MURRAY-AARON, State Oil and Gas Supervisor  
plug from top of junk and squeeze. Cement  
plug will extend to bottom*

Blanket Bond of window. Will not witness

By Wm. C. Bailey, Deputy

NOV 1 1962

DIVISION OF OIL AND GAS

INGLEWOOD, CALIFORNIA

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Ventura, Calif. October 31, 19 62

DIVISION OF OIL AND GAS

MAP	MAP BOOK	CARDS	BOND	FORMS	
				100	121

Inglewood Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to

commence the work of deepening, ~~redrilling, plugging or altering casing at~~ Well No. "Standard-Sesnon 1(-No) 10  
(Cross out unnecessary words)

Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8877'

2. Complete casing record.

13 3/8" 54.5# c 823' ✓  
 7" 23, 26 & 29# c 8612' ✓  
 292' ✓ -5" 18# L 8874'  
 Perfs: 8615-8874' (80 M, 2" slots, 12 rows, 6" centers)  
 Scab Cemented 8615-8671'; 8695-8734'  
 T.L.H. 8582'

3. Last produced. 1960: Idle, due to excessive GOR (Sesnon Zone)  
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows: DEEPEN TO FREW ZONE:

1. Equalize 30 sacks cement on bottom\*.
2. Mill section in 7" casing from 8115'-8145'; plug back with 50 sax cement. Set whipstock and redrill to 9300' ±.
3. Cement 5" liner at 9300'; T.L.H. 8000'.
4. Establish WSO on lap \*, 4 holes at 8600' and 8865' \*.
5. J.P. 4 h/ft 8900-9260'.
6. Return well to production.

\* To be witnessed & approved by D.O.G.

TIDEWATER OIL COMPANY, Operator

(Name of Operator)  
By J. M. Cadden, Agent

WELL NO. 10-25-63  
 NAME *Mun Mes - Denver*  
 COUNTY Los Angeles  
 TOWNSHIP 21S R. 15 W. S. 16E  
 SECTION 20-16E

DATE 9/20/63  
 TIME 10:20/35  
 COMP. 10/20/63  
 AWARD.

DATE OF ISSUE: 10/19/63

T. D. 8846'  
 PLUG

PIPE RECORD			GEOLOGICAL MARKERS	
SIZE	DEPTH	CONTROLS	REMARKS	
10 1/2"	1500	*	w/1200 sx.	<b>DIVISION OF OIL AND GAS                  RECEIVED                  OCT 24 1963                  INGLEWOOD, CALIFORNIA</b>
7"	8841	*	Gun perf'd. 8531-8812 at intervals  Prod. Int. 8531-8812 at intervals	

DATE	DEPTH	FORMATION - REMARKS	
5/20/63		Location, D.O.G.	CONTRACTOR Graham Drilling Co.
7/22/63		Moving in equipment.	ENGINEER
7/23/63		Rigging rotary.	GEOLOGIST
7/26/63	103	Drilling.	
7/29/63	1500	Drilling.	
7/31/63		Ran 10 3/4" standing cmtd. at 1500' w/1200sx.	Stepout ± 1/2 mile W of Aliso Canyon production.
8/1/63	1600	Drilling.	
8/2/63	2082	Drilling.	
8/5/63		No Report.	
8/6/63	3257	Drilling.	9/9/63 8846 T.D. Cmtd. 7" at 8841'.
8/7/63	3683	Drilling.	9/10/63 WSOK on 7".
8/8/63	4111	Drilling.	9/12/63 Production perforated int. within 8531-8812'.
8/9/63	4419	Drilling.	
8/12/63	5167	Drilling.	9/13/63 Ran tubing. Moved out equipment 9/12/63.
8/13/63	5488	Drilling.	
8/14/63	5804	Drilling.	9/24/63 On pump 9/20/63 - I.P.
8/15/63	5949	Drilling.	96 B/D oil, 21.8°, 5.1% cut.
8/16/63	6055	Drilling.	9/22/63- 93 B/D oil, 21.8°, 1.6% cut.
8/19/63	6458	Drilling.	
8/20/63	6690	Drilling.	10/8/63 Resumed 10/6/63 - changed pumps. Returned to prod.
8/21/63	6970	Drilling.	24 B/D oil, 21.6°, 0.8% cut, 350/500#.
8/22/63	7211	Drilling.	
8/23/63	7403	Drilling.	
8/26/63	7612	Drilled. Fishing.	10/9/63 24 B/D net oil, 21.8°, ut. 5.1% cut, 300/250#.
8/27/63	7683	Recovered fish. Drig. ahead.	10/11/63 105 B/D, 21°, 5% cut.
8/28/63	7869	Drilling.	
8/29/63	7970	Drilling.	
8/30/63	8204	Drilling.	
9/3/63	8645	Drilling.	
9/4/63	8836	Drilling.	
9/5/63	8846	Total Depth. Running logs.	
9/6/63		Ran logs.	

MUNGER SERVICE

MAP 150 S.C. 10-25-63

BOOK *S.C.* ✓ 100

EX-100

DIVISION OF OIL AND GAS

JUL 16 1956

WELL SUMMARY REPORT

LOS ANGELES, CALIFORNIA

SUBMIT IN DUPLICATE

Operator TIDEWATER OIL COMPANY Well No. Standard-Sesnon (-) 1-#10

Sec. (28) 29, T. 3N, R. 16 W, SB B. & M. Aliso Canyon Field Los Angeles County.

Location 1670.68 S and 7787.62 W from Station #81  
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 2622 feet

All depth measurements taken from top of Derrick Floor which is 6.92 feet above ground.  
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date June 4, 1956 Signed T. E. Weaver

R. M. Burns (Engineer or Geologist) W. D. Goold (Superintendent) Title T. E. Weaver, Agent (President, Secretary or Agent)

Commenced drilling (scrubbing)	11/3/55	GEOLOGICAL MARKERS	DEPTH
Completed drilling/scrubbing	11/17/55		
Total depth	8877		
Plugged depth			
Junk			

Commenced producing 11/20/55 (Date) Flowing gas lift/pumping (Cross out unnecessary words) Name of producing zone Sesnon  
Geologic age at total depth: Miocene

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
11/21/55 Initial production	167	21.6	1.0%	238	850#	900#
12/20/55 Production after 30 days	47	22.8	3.6%	151	1150	1200#

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
13 3/8"	823	0'	51.5#	New	Seamless	T & C	17 1/4"	500	
7"	8612	0	23.26, 29#	New	Seamless	J-55, N-80	11"	500	
5"	8874	8582	18	New	Seamless	J-55	6"	-	

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

5" (8615 - 8671, 8695-8734 Ineff.)									
5" 8671'-8695'	80 Mesh x 2"	12 Rows w/ 6" centers	By Pacific						
5" 8734-8874	80 Mesh x 2"	12 Rows w/ 6" centers	By Pacific						

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCESDIVISION OF OIL AND GAS  
P. O. BOX 1000

## DIVISION OF OIL AND GAS

JUL 16 1956

## History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

Tidewater Oil Company

Aliso Canyon

OPERATOR \_\_\_\_\_ FIELD \_\_\_\_\_

Well No. Standard-Sesnon 1-#10, Sec. (28)<sup>29</sup>, T. 3 N, R. 16 W, S. B. B. & M.Date \_\_\_\_\_, 19 \_\_\_\_\_ Signed T. E. WeaverJune 4, 1956Title T. E. Weaver, Agent  
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date  
1955

10/31 Killed well with 340 barrels salt water.

11/1-2 Contractor rigging up.

11/3 Finished rigging up. Circulated salt water. Tore out Christmas tree. Installed and tested B.O.P. Ran 2-7/8" tubing broach and cleaned out wax in top 800' of tubing. Ran tubing to bottom (8874').

11/4 Spotted 7 barrels Ken Pak on bottom. Pulled tubing to 8735' and backscuttled approximately 3 barrels Ken Pak. Ran M & T bridging plug on tubing and set at 8735'. Pulled tubing.

11/5 Made up 2-7/8" drill-tubing. Ran M & T scabbing tool and washed intervals 8700'-8730' and 8642'-8667' with salt water.

11/6 Washed interval 8700'-8730' with M & T scabbing tool. Mixed 35 sacks C.H.F. cement and scabbed interval 8700'-8730'. Pulled tool to 8690' and backscuttled estimated 25 sacks cement. Washed interval 8642'-8667' and scabbed with 35 sacks C.H.F. cement. Pulled tool to 8630' and backscuttled estimated 28 sacks. Time 11:00 AM. B.J. Service. Pulled scabbing tool and started in hole with bit. Clutch broke down at 10:00 PM.

11/7 Repaired clutch. Ran bit and located top of cement at 8638'. Cleaned out cement and cement stringers to 8732'. Pulled bit and ran scabbing tool.

11/8 Ran scabbing tool and attempted to pressure test scab from 8730'-8718'. Tool plugged and stuck at 8718'. Worked tool loose. Pulled scabbing tool and ran bit. Cleaned out sand, particles of cement from 8718'-8730'.

11/9 Ran M & T scabbing tool and pressure tested interval 8642'-8667' and 8698'-8730'. Intervals would not hold 1500# pressure. Washed both intervals with salt water. Mixed 35 sacks C.H.F. cement and scabbed interval 8730'-8700'. Pulled tool to 8690' and backscuttled an estimated 25 sacks. Time 2:47 PM. Mixed 35 sacks of C.H.F. cement and scabbed interval 8667'-8642'. Pulled tool to 8630' and backscuttled an estimated 20 sacks. Time 4:05 PM. B.J. Service. Ran 4-1/8" bit and scraper and found top of hard cement at 8638'.

11/10 Drilled out hard cement from 8638'-8669' and 8690'-8731'. Circulated hole clean. Pulled bit and scraper. Ran M & T scabbing tool with 15" spacing on cups. Pressure tested interval 8642'-8667' in 1' stages. The following intervals held 1500#: 8644'-8645'; 8650'-8660'; 8666'-8667'. Pressure tested interval 8700'-8728' in 1' stages and the following intervals held 1500#: 8704'-8705' and 8717'-8728'. Backscuttled hole clean.

WELL NO.: Standard-Sesson 1-#10, Aliso Canyon Field

JUL 16 1956

LOS ANGELES, CALIFORNIA

1955 (Cont.)

- 11/11 Ran M & T scabbing tool with two down-cups and by-pass valve on 2-7/8" drill-tubing and hung at 8730'. Mixed 35 sacks C.H.T. cement and scabbed interval 8730'-8700' with approximately 2000# on tool. Pulled tool to 8690' and back-scuttled an estimated 28 sacks. Time 11:40 AM. B.J. Service. Pulled scabbing tool and reran tool with opposed cups. Washed and recemented interval 8667'-8642' with 35 sacks C.H.T. cement. Pulled tool to 8630' and backscuttled an estimated 18 sacks. Time 11:05 PM. B.J. Service.
- 11/12 Ran 4-1/8" bit and scraper and drilled out hard cement from 8640'-8670', cement stringers from 8670'-8690', and hard cement from 8690'-8732'. Circulated hole clean and pulled bit and scraper.
- 11/13 Ran M & T scabbing tool with 15" spacing on cups and pressure tested with the following results:
- Upper Scab: 8645'-8673' - held 2000#  
Lower Scab: 8700'-8710' - held 2000#  
8710'-8711' - slight leak  
8711'-8731' - held 2000#
- 11/14 Ran 4-1/8" bit and scraper and drilled out bridge plug at 8735'. Circulated out salt water with oil and cleaned out Ken Pak to 8874'. Pulled to top of liner and circulated out oil with salt water. Pulled bit and ran M & T washer to top of liner.
- 11/15 Circulated out salt water with oil. Washed 5" liner from 8615'-8874' in 1' stages with following results:
- 8615'-8671' - held 2000-2300# pressure  
8671'-8695' - open  
8695'-8734' - held 2000-2300#  
8734'-8874' - open
- Pulled to top of liner and circulated out oil with salt water. Pulled washing tool.
- 11/16 Laid down drill-tubing. Running tubing with packer.
- 11/17 Ran 2-7/8" tubing with 187' of 2-3/8" tubing on bottom and set on packer at 8656' with 12,000#. Applied 1500# to annulus for one hour without circulation. Pressure dropped from 1500-1300# every 10 minutes. Formation apparently taking fluid. Pulled blank choke and started swabbing at 3:00 AM (11-18-55). Swabbed 40 barrels circulating salt water. Fluid level 1000'.
- 11/18 Started swabbing at 9:00 AM. Swabbed 180 barrels circulating salt water. Swabbing at 3500'.
- 11/19 Swabbed and flowed by heads 95 barrels of very thick oil and water (possibly Ken Pak). 450# casing pressure.
- 11/20 Swabbed 75 barrels (350 barrels total) heavy oil and water to 5:00 PM when well started flowing steadily. Well flowing to tanks at 8:00 PM. In 9 hours flowed 152 barrels gross, 100 barrels net, 34.0% cut, 16/64" bean, 750/650#.
- 11/21 In 24 hours well flowed 174 barrels gross, 167 barrels net, 4.0% cut, 21.6 gravity, 16/65" to 9/64" bean, 850/900#, 238 MCF, 1425 GOR. Changed from 16/64" to 11/64" bean at 9:30 AM, then changed from 11/64" to 9/64" at 9:30 PM. Released contractor at 3:00 PM.
- 11/22 In 24 hours well flowed 97 barrels gross, 93 barrels net, 4.0% cut, 22.5 gravity, 9/64" to 8/64" bean, 800/900#, 168 MCF, 1810 GOR. Changed from 9/64" to 8/64" bean at 11:00 AM.
- 11/23 In 24 hours well flowed 87 barrels gross, 82 barrels net, 6.0% cut, 22.8 gravity, 8/64" bean, 1100/1100#, 142 MCF, 1732 GOR.

JUL 16 1956

OPERATOR: TIDEWATER OIL COMPANY

WELL NO.: Standard-Sesnon 1-#10, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

1955	Gross	Net	Cut	Gravity	Bean	Tubing Pressure	Casing Pressure	MCF Gas	GOR
11/24	92	85	8.0%	22.8	8/64"	750#	1100#	151	1776
11/25	92	86	6.0%	22.8	8/64"	900#	1100#	159	1849
11/26	92	88	4.0%	22.8	8/64"	800#	1150#	179	2034
11/27	87	82	6.0%	22.8	8/64"	900#	1150#	187	2280
11/28	92	86	6.0%	22.8	8/64"	1350#	1200#	195	2267
11/29	* Well off gauge. Estimated production for 24 hours (flowing) as follows:								
	92	86	6.0%	22.8	8/64"	1100#	1200#	195	2267
11/30	Well off gauge. Estimated production for 24 hours (flowing) as follows:								
	92	86	6.0%	22.8	8/64"	1100#	1200#	195	2267
12/1	92	89	3.0%	22.8	8/64"	1100#	1200#	205	2305
12/2	97	94	3.0%	22.8	8/64"	1100#	1200#	205	2180
12/3	93	91	2.5%	22.8	8/64"	1100#	1200#	208	2286
12/4	87	84	3.0%	22.8	8/64"	1150#	1200#	212	2524
12/5	87	84	3.0%	22.8	8/64"	1150#	1200#	205	2440
12/6	76	74	2.2%	22.8	8/64"	1250#	1250#	207	2797
12/7	75	73	3.0%	22.8	8/64"	1350#	1250#	207	2797
12/8	65	65	1.0%	22.8	6/64"	1350#	1250#	215	3308
12/9	71	71	1.0%	22.8	6/64"	1350#	1250#	208	2930
12/10	65	65	1.0%	22.8	6/64"	1350#	1350#	199	3062
12/11	65	65	1.0%	22.8	6/64"	1250#	1350#	204	3138
12/12	65	63	2.6%	22.8	5/64"	1250#	1350#	208	3300
12/13	85	83	2.5%	22.8	5/64"	1250#	1350#	175	2110
12/14	58	57	2.2%	22.8	5/64"	1200#	1250#	161	2815
12/15	46	45	2.2%	22.8	5/64"	1250#	1300#	149	3311
12/16	43	41	3.6%	22.8	5/64"	1250#	1300#	146	3170
12/17	49	47	3.6%	22.8	5/64"	1350#	1450#	145	3090
12/18	49	47	3.6%	22.8	5/64"	1050#	1150#	138	2935
12/19	42	41	3.6%	22.8	5/64"	1150#	1200#	138	3370
12/20	49	47	3.6%	22.8	5/64"	1150#	1200#	151	3215

CASING RECORD

13-3/8" 54.5# C 823'  
 7" 23, 26, 29# C 8612'  
 292' 5" 18# L 8874' Top 8582' Pf. 8615'-8874'  
 Scab 8615'-8671'; 8695'-8734'

TUBING RECORD

2-7/8" H w/plr @ 8656' incl. 187' of 2-3/8" on bottom

\* Installed blank bean.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS  
REPORT ON PROPOSED OPERATIONS

No. P. 155-1539

Mr. Thomas E Weaver  
Box X  
LOS NIETOS California  
Agent for TIDE WATER ASSOCIATED OIL CO

Los Angeles 15  
September 29  
Calif. 19 55

DEAR SIR: "Standard-Sesson 1"  
Your proposal to alter casing Well No. 10

Section 29, T. 3 N., R. 16 W., S. B. B. & M., Aliso Canyon Field, Los Angeles County,

dated Sept. 27, 1955, received Sept. 28, 1955, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:  
RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE  
The 7" shut-off at 8612' was approved.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 8877'
2. Complete casing record.  
13-3/8" 54.5# C 823'  
7" 23, 26, 29# C 8612'  
292' 5" 18# L 8874' Top 8582' Pr. 8615'-8874'

3. Last produced. May, 1955 15 B/D 22.5 0.1%  
(Date) (Net Oil) (Gravity) (Cut)"

PROPOSAL

"The proposed work is as follows:

1. Spot Ken Pak from 8874' to 8735' and set bridge plug at 8735'.
2. Scab cement intervals from 8700'-8730' and 8642'-8667'. Pressure test intervals and recement until scab is effective.
3. Drill out bridge plug and clean out to bottom of 5" liner.
4. Run packer on 2" and 2-1/2" tubing and set between 8667' and 8642'.  
Test effectiveness of packer.
5. Swab and complete well."

DECISION

THE PROPOSAL IS APPROVED.

FEK:OH

cc F W Hertel  
R M Burns (2)

R S Curl  
c/o Tide Water Associated Oil Co  
888 Pacific Electric Bldg  
LOS ANGELES 14

E. H. MUSSER, State Oil and Gas Supervisor

By *P. M. Mallin*, Deputy

RECEIVED

SEP 28 1955

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

~~Los Nietos~~ Calif. ~~Sept. 27~~ 19 ~~55~~

DIVISION OF OIL AND GAS

~~Los Angeles~~ Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or altering casing~~ <sup>sealing</sup> at Well No. ~~Standard-Session 1-#10~~

Sec. ~~28~~, T. ~~3 N~~, R. ~~16 W~~, S. ~~4~~ B. & M.

~~Alliso Canyon~~ Field, ~~Los Angeles~~ County.

The present condition of the well is as follows:

- 1. Total depth. 8877'
- 2. Complete casing record.

	13-3/8"	51.5'	C	823'	
	7"	23, 26, 29'	C	8612'	
292'	5"	10'	L	8874'	Top 8582'
					Pc. 8615'-8874'

3. Last produced. May, 1955 15 B/D 22.5 0.1%  
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

- 1. Spot Ken Pak from 8874' to 8735' and set bridge plug at 8735'.
- 2. Seal cement intervals from 8700'-8730' and 8612'-8667'. Pressure test intervals and recement until seal is effective.
- 3. Drill out bridge plug and clean out to bottom of 5" liner.
- 4. Run packer on 2" and 2-1/2" tubing and set between 8667' and 8612'. Test effectiveness of packer.
- 5. Swab and complete well.

MAP BOOK	CARDS	BOND	FORMS	
			114	121
			EB/EB	

~~TIDE WATER ASSOCIATED OIL COMPANY~~  
(Name of Operator)

By Thomas P. Weaver  
T. P. Weaver, Agent

August 26 1954

Mr Thomas E Weaver  
Box Y  
Los Nietos California

Agent for Tide Water Associated Oil Company

Dear Mr Weaver

We have recently found our map No. 18A to be inaccurate in so far as the sectionization and basic boundaries in the Aliso Canyon field area are concerned. As a result, the numbers of the sections in which many of the wells are located have been incorrectly shown in our records. We are therefore correcting our records of the following of your wells as indicated:

From Sec. 27, T. 3 N., R. 16 W., S.B.B.& M., to Sec. 28

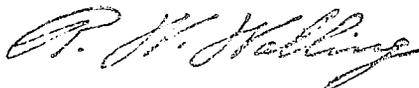
Wells No. "Porter" 4  
          "Porter" 16  
          "Porter" 34  
          "Porter" 52  
          "Porter" 61

From Sec. 28, T. 3 N., R. 16 W., S.B.B.& M., to Sec. 29

Wells No. "Standard-Sesnon 1" 4  
          "Standard-Sesnon 1" 10  
          "Standard-Sesnon 1" 12  
          ~~"Standard-Sesnon 1" 24~~

*Sec 28 - Cor. well record*

Very truly yours



R W WALLING  
Deputy Supervisor

FEK:my  
cc - Messrs E H Musser  
      T L Wark  
      J R Boyer (2)  
      R S Curl

SUBMIT LOG IN DUPLICATE

FORM 100. CALIFORNIA STATE PRINTING OFFICE

FILL IN BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS RECEIVED

AUG 8 - 1947

WELL SUMMARY REPORT

Operator: SIDE WATER ASSOCIATED OIL COMPANY Field: ALISO CANYON LOS ANGELES, CALIFORNIA

Well No. STANDARD DESIGN #1-10 Sec. 29, T. 3 N, R. 16 W, S. 1. B. & M.

Location: 1670.68' S & 7787.62' W from St. 464 Elevation of derrick floor above sea level: 2625.92' feet.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date: August 1, 1947 Signed: R. S. Carl Agent (President, Secretary or Agent)

Commenced drilling: 4/20/47 Completed drilling: 6/19/47 Drilling tools: Cable, Rotary Total depth: 8577 Plugged depth: GEOLGICAL MARKERS DEPTH

Commenced producing: 6/22/47 Flowing/gas lift/pumping (cross out unnecessary words)

Table with 6 columns: Clean Oil bbl. per day, Gravity Clean Oil, Per Cent Water including emulsion, Gas Mcf. per day, Tubing Pressure, Casing Pressure. Rows for Initial production and Production after 30 days.

CASING RECORD (Present Hole)

Table with 10 columns: Size of Casing (A. P. I.), Depth of Shoe, Top of Casing, Weight of Casing, New or Second Hand, Seamless or Lapweld, Grade of Casing, Size of Hole Casing landed in, Number of Sacks of Cement, Depth of Cementing if through perforations.

PERFORATIONS

Table with 7 columns: Size of Casing, From, To, Size of Perforations, Number of Rows, Distance Between Centers, Method of Perforations. Includes sub-table for MAP, MAP BOOK, CARDS, BOND, FORMS.

Electrical Log Depths: 823-8577 (Attach Copy of Log)

DIVISION OF OIL AND GAS  
RECEIVED  
AUG 8 - 1947  
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIME WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD-SERVOZ #1-10, Sec. 25-29, T. 3 N, R. 16 W, S. 3, B. & M.

Signed R. J. Carl

Date August 1, 1947 Title Agent  
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, re-drilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, re-drilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date	Depth	Description
1947 3/7-4/19		Graded road and rig site. Dug cellar. Excavated slide. Poured concrete foundation and graded road. Assembled derrick. Installed sub-base. Erected derrick. Installed casing racks. Erected derrick. Moved in and rigged up rotary.
4/20	400'	Spudded 12-1/4" hole at 12:05 AM. Drilled to 400'. Opened 12-1/4" hole to 17-1/4" from 0' to 65'.
4/21	900'	Drilled 12-1/4" hole from 400' to 900'. Opened 12-1/4" hole to 17-1/4" from 65' to 230'.
4/22	910'	Drilled 12-1/4" hole from 900' to 910'. Opened 12-1/4" hole to 17-1/4" from 230' to 576'.
4/23		Opened 12-1/4" hole to 17-1/4" from 576' to 823'. Ran and cemented 13-3/8", 54.5# Youngstown T&C casing at 823' with 500 sacks Colton construction cement, all treated with quick setting chemical. Had good cement returns to surface. Pressure increased from 300# to 400# when plugs bumped. Time 11:30 PM. International Cementers, Inc.
4/24		Landed casing and installed cellar connections. Located top of cement at 815'. Cleaned out to 910'.
4/25-29	2606'	Drilled 11" hole from 910' to 2606'. Lost circulation while drilling at 2471'. Mixed rice hulls with mud and regained circulation.
4/30-5/7	4875'	Drilled 11" hole from 2606' to 2921'. Lost circulation while drilling at 2800' but regained circulation with Aquagel and rice hulls in mud. Drilled 11" hole from 2921' to 4875'.
5/8-9	4940'	Drilled 11" hole from 4875' to 4940'. Lost circulation while drilling at 4940'. Mixed gel and rice hulls and regained circulation.
	5080'	Drilled 11" hole from 4940' to 5080'. Lost circulation and mixed rice hulls and gel and regained circulation.
5/10-19	7150'	Drilled 11" hole from 5080' to 7002'. Ran Schlumberger electric log at 7002'. Drilled 11" hole from 7002' to 7150'.

DIVISION OF OIL AND GAS DIVISION OF OIL AND GAS

RECEIVED

History of Oil or Gas Well

AUG 8 - 1947

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON ANGELES, CALIFORNIA

Well No. STANDARD-SESQUI #1-10, Sec. 29-24, T. J N, R. 16 W, S. S. B. B. & M.

Signed R. J. Carl

Date August 2, 1947 Title Agent  
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, re-drilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, re-drilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date	Depth	Description
1947 5/20-26	8114'	Drilled 11" hole from 7150' to 8114'. Stuck drill pipe at 8055'. Spotted 90 bbls of oil and stuck drill pipe came loose. Conditioned mud and continued drilling 11" hole from 8114' to 8166'.
5/27-30	8404'	Drilled 11" hole from 8114' to 8404'. Ran Schlumberger electric log at 8361'.
5/31-6/2	8600'	Drilled 11" hole from 8404' to 8600'. Ran Schlumberger electric log. Changed lines.
6/3	8612'	Drilled 11" hole from 8600' to 8612'. Ran and cemented 7" Youngtown Speedtite casing at 8612' with 500 sacks Colton High Temperature cement at 8612'. Details of casing as follows:  8612' - 6977' is 29# N-80 6977' - 5346' is 26# N-80 5346' - 3656' is 23# N-80 3656' - 0' is 23# J-55 Pressure rose from 650# to 750# when plugs bumped. Time 7:00 PM. International Cementers, Inc.
6/4-6 6/7		Standing cemented. Laid down drill pipe. Held 1500# on 7" casing for 15 minutes without loss. Located top of cement at 8562'. Cleaned out cement to 8612' and drilled 5' for W.S.O. test.
6/8		Ran Johnston tester on 2-7/8" drill pipe with 950# of water cushion and set packer at 8575' with tail pipe to 8592'. Opened 3/8" bean at 6:20 PM. Had fair to weak steady blow throughout 1 1/2 hour test. Filled tester and recovered 36 stands of new fluid consisting of drilling mud with no free water. Test of shut off witnessed but not approved by D.O.G.
6/9 6/10		Made up 2-7/8" tubing and circulated and conditioned mud at 8612'. Ran Baker removable retainer on 2-7/8" tubing and set at 8565'. Applied pressure and formation began taking fluid at 2400# and decreased to 2200#. Mixed and displaced 100 sacks Colton High Temperature cement around shoe of 7" casing. Final pressure 3000#. Held 800# between tubing and casing while displacing cement. Time 10:30 PM. International bulk method.

SUBMIT IN DUPLICATE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL AND GAS** **DIVISION OF OIL AND GAS**  
**RECEIVED**  
AUG 8 - 1947  
**History of Oil or Gas Well**

OPERATOR WIDE WATER ASSOCIATED OIL COMPANY FIELD ALLI LOS ANGELES, CALIFORNIA

Well No. STANDARD-SESSION #1-10, Sec. 19 ~~24~~, T. 3 N, R. 16 W S. S.F. B. & M.

Signed R. J. Carl  
 Title Agent (President, Secretary or Agent)

Date August 1, 1947

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, re-drilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, re-drilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date

1947

6/11  
6/12

Standing cemented. Located top of cement at 5522'.  
 Cleaned out hard cement from 5522' to 5617'. Ran Johnston tester on 2-7/8" drill pipe with 950' of water cushion and set packer at 5583' with tail pipe to 5600'. Opened 3/8" bean at 3:45 PM. Had fair steady blow decreasing to no blow and completely dead after 45 minutes. Puled tester at 5:15 after being open 1 1/2 hours. Recovered 3 stands (1.2 bbls) drilling fluid. Sample approximately 50' above tester tested 125 G/G. Pressure bomb chart checked details of test and indicated valve was open throughout test. Test of W.S.O. witnessed and approved/D.O.G. Changed to oil emulsion mud.

6/13-19  
6/20

8577' Cored 6" hole from 5617' to 5575'. Ran Schlumberger electric log. Reamed 6" hole from 5612' to 5577'. Ran 292' 5", 18# J-55 Kobe inserted liner including 259' 80 Mesh Pacific perforated, 12 rows, 6" centers, 2" slots with 6" undercut and landed at 5574'. Top liner hanger 5582'. Perforated 5615-5574'.

6/21

Ran 2-7/8" upset 6.5# J-55 round thread tubing including bottom 312', 2-3/8", 4.7# and hung at 5749'. Connected up Christmas tree and circulated out mud with oil.

6/22

Began swabbing at 4:00 PM. Swabbed to 400' when well began flowing. Turned to mud tanks at 8:00 PM and in 2 1/2 hours well flowed 263 (2520 B/D rate). Turned to production tanks at 10:30 PM and in 8 hours to 6:30 AM 6/23 well flowed 484 bbls gross fluid; 466 bbls approximate net oil; 4.0% cut. (1452 B/D rate), 32/64" bean; 350# tubing pressure; 0# casing pressure; 20.5° gravity; 525 MCF gas rate.

**DIVISION OF OIL AND GAS**

**History of Oil or Gas Well**

LOS ANGELES, CALIFORNIA

OPERATOR TYLE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD-SENON #1-10, Sec. 25 T. 3 N, R. 16 W, S. S.B. B. & M.

Signed R. J. Carl

Date August 1, 1947 Title Agent  
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, re-drilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, re-drilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date	Fluid	Net Oil	Cut	Beam Gravity	Tubing Pressure	Casing Pressure	Gas	Hours On
6/23	1049	1015	3.0	31/64"	21.8	520#	0#	388 24
6/24	327	324	1.0	12/64"	21.8	680#	0#	114 24
6/25	291	290	0.2	12/64"	21.8	650#	0#	107 24
6/26	253	252	0.5	12/64"	21.8	620#	0#	- 5 1/2
6/27-7/1	Shut in.							
7/2	Shut in.							
7/5	252	215	0.4	12/64"	21.8	700#	150#	139 24
7/6	294	293	0.4	12/64"	21.8	700#	150#	125 24
7/7	308	307	0.4	12/64"	21.8	700#	150#	121 24
7/8	237	236	0.3	11/64"	21.8	700#	150#	105 24
7/9	247	246	0.2	11/64"	21.8	700#	100#	105 24
7/10	240	239	0.4	11/64"	21.8	775#	150#	99 24
7/11	242	241	0.2	11/64"	21.8	775#	150#	98 24
7/12	247	246	0.2	11/64"	21.8	760#	50#	101 24
7/13	247	246	0.1	11/64"	21.8	760#	50#	97 24
7/14	231	230	0.2	11/64"	21.8	760#	50#	98 24
7/15	242	241	0.2	11/64"	21.8	750#	100#	101 24
7/16	235	234	0.2	11/64"	21.8	750#	150#	101 24
7/17	237	236	0.2	11/64"	21.8	750#	150#	106 24
7/18	237	236	0.2	11/64"	21.8	700#	300#	106 24
7/19	234	233	0.2	11/64"	21.8	700#	300#	99 24
7/20	234	233	0.2	11/64"	21.8	700#	400#	99 24
7/21	236	235	0.2	11/64"	21.8	700#	400#	98 24
7/22	232	231	0.2	11/64"	21.8	700#	400#	95 24

CASING RECORD

13-3/8", 54.5# 0 823'  
7", 23#, 26#, 29# 0 8612'  
292' - 5", 18# 1 8874' Top 8582' Fr. 8615-8874'

TUBING RECORD

2-7/8", 6.5# R 8745' Inc. 312' bottom 2-3/8", 4.7#

MAP	MAP BOOK	CARDS	FORMS
			121

**DIVISION OF OIL AND GAS**

LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

THE WATER ASSOCIATED OIL COMPANY

ALISO CANYON

Operator \_\_\_\_\_ Field \_\_\_\_\_

Well No. STANDARD SECTION #1-10 Sec. 29, T. 3 N, R. 15 W, S. 2, B. & M.

**FORMATIONS PENETRATED BY WELL**

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>6" Reed Conventional Cores:</u>					
8617'	8637'			21'	7'0" Sandy siltstone. Firm to very hard, grading to bottom 2' more sandy with occasional oil stain. No to slight cut and odor. 7'0" Firm, very fine oil sand. Good cut and odor. 0'6" Shell. 6'6" Firm to hard, dark gray oil stained sandy siltstone. No to fair cut and odor.
8637'	8654'			17'	1'6" Shell. 15'6" Firm, medium to coarse, poorly sorted oil sand. Good cut and odor.
8654'	8674'			20'	3'0" Firm, very fine to silty oil sand. Good cut and odor. Grades to: 6'0" Firm, dark gray oil stained sandy siltstone. No to slight cut and odor. 11'0" Firm, generally medium grained, poorly sorted oil sand. Good cut and odor. Looks very good.
8674'	8694'			1'6"	Firm, medium grained oil sand. Good cut and odor.
8694'	8714'			13'	Firm to hard, dark gray oil stained sandy siltstone. No to good cut and odor. High angle shearing noted in core.
8714'	8734'			15'	Hard dark gray sandy siltstone, with bottom 3'6" showing oil stain. No to good cut and odor.

**DIVISION OF OIL AND GAS** AUG 8 - 1947

**LOG AND CORE RECORD OF OIL OR GAS WELL** LOS ANGELES, CALIFORNIA

**TIDE WATER ASSOCIATED OIL COMPANY**

**ALISO CANYON**

Operator \_\_\_\_\_ Field \_\_\_\_\_

Well No. **STANADARI-SESNON #1-10** Sec. **28**, T. **3 N**, R. **16 W**, S. **D.** B. & M.

**FORMATIONS PENETRATED BY WELL**

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<b>6" Reed Conventional Cores:</b>					
8734'	8754'			19'	5'6" Firm, fine to coarse poorly sorted oil sand. Good cut and odor. Grading to 13'6" Firm to hard oil saturated and dark gray sandy siltstone. No to good cut and odor.
8754'	8774'			20'	Fine, very sandy oil saturated siltstone. Good cut and odor. May be classed as fine silty oil sand.
8774'	8792'			20'	Firm to hard, generally very sandy oil saturated siltstone. Good cut and odor. Two 6" shell. Minor shearing near bottom of core. Approximately 75% may be classed as fine silty oil sand.
8792'	8810'			10'	9'6" Hard dark gray and oil stained silty siltstone. No to good cut and odor. 0'6" Shell.
8810'	8828'			10'	Siltstone as above including two 6" streaks of shell. 12'0" Firm to hard oil saturated sandy siltstone. Good cut and odor. Includes two streaks of shell, totaling 1'3" 6'0" Hard gray irregularly oil saturated sandy siltstone. No to good cut and odor. Includes 1' shell.
8846'	8864'			16'	Siltstone as above. Includes three streaks shell totaling 2'.
8864'	8876'			1'	0'6" Firm oil stained sandy siltstone. Good cut, sour odor. 0'6" Well rounded pebbles to 1" and pieces of larger pebbles.

MAP	MAP BOOK	CARDS	FORMS	
			111	121
				M

CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

July 2, 1947

Wide Water Associated Oil Company  
610 South Main Street  
Los Angeles, California

Attention: Mr. Joseph Jensen

Subject: Core Analysis  
Seanon # 1-10 Well  
Aliso Canyon Field  
Los Angeles County, California

Gentlemen:

An on location analysis has been made on cores taken from the above well and the results are submitted herewith.

The Seanon Sand between 8638 and 8676 feet is interpreted to be oil productive, with sufficient permeability and productive capacity for economic rates of flow.

A summary of the core analysis for the interval, 8638 to 8676 feet, is included with the report. Recoverable oil calculations are being held until capillary pressure and relative permeability studies are completed.

Recovered core in the interval 8694 to 8774 feet weathered in the core barrel from five to twenty hours before removal and no interpretation for fluid production can be made.

Formation below 8774 feet exhibits permeability generally considered too low to permit the flow of appreciable volumes of fluid into the well bore and therefore no fluid index is plotted for this interval.

Capillary pressure measurements and relative permeability to gas data will follow in a supplementary report.

Very truly yours,

CORE LABORATORIES, INC.

Original Signed By  
J. H. CAMPBELL

J. H. Campbell,  
Vice-President

JHC/jac

COPY

CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

Company TIDEWATER ASSOCIATED OIL CO. Date Report JUNE 19, 1947 Page 1 of 5  
Well SBSNON # 1-10 Cores HEAD CONV. File FD-9-416  
Field ALISO CANYON Formation SBSNON Analysts WML JDD  
County LOS ANGELES State CALIFORNIA Elevation 2629' Coregraph YES  
Location \_\_\_\_\_ Remarks ON LOCATION ANALYSES

CORE ANALYSIS AND INTERPRETATION  
(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL LIQUID SATURATION % PORE SPACE		PROBABLE PRODUCTION	REMARKS
				OIL	TOTAL WATER		
1	8623.5	4.3	23.3	16.3	51.6		Core Weathered 8623.0-8630.0; No Fluid Index Given
2	24.5	75	23.2	25.4	43.1		
3	25.5	43	23.0	20.0	40.4		
4	26.5	29	26.7	17.6	41.9		
5	27.5	41	23.3	20.2	43.7		
6	28.5	53	23.5	19.6	48.9		
7	29.5	8.2	20.7	18.4	45.8		
8	38.5	35	16.0	15.0	40.6	011	
9	39.5	372	19.1	22.0	35.2	011	
10	40.5	370	22.4	29.0	33.6	011	
11	41.5	660	21.3	18.8	37.1	011	
12	42.5	460	20.9	21.5	27.8	011	
13	43.5	262	23.4	22.2	34.2	011	
14	44.5	756	23.9	20.1	33.5	011	
15	45.5	774	22.3	20.2	36.5	011	
16	46.5	875	24.2	22.3	34.3	011	
17	47.5	297	25.7	21.0	37.8	011	
18	48.5	209	24.6	16.3	34.6	011	
19	49.5	1210	24.0	16.2	29.2	011	
20	50.5	270	22.2	18.5	31.2	011	
21	51.5	284	26.2	18.7	32.1	011	
22	52.5	271	22.9	15.3	30.6	011	
23	53.5	113	26.2	15.7	30.2	011	
24	54.5	2.6	22.5	23.6	52.1	011	
25	55.5	8.8	25.2	19.0	50.1	011	
26	56.5	107	26.5	18.1	48.7	011	
27	64.5	28	25.2	21.8	54.8	011	
28	65.5	52	15.1	29.1	41.2	011	
29	66.5	634	25.3	25.6	26.1	011	
30	67.5	316	24.9	20.1	29.3	011	
31	68.5	188	23.9	24.7	24.2	011	
32	69.5	180	21.4	23.8	35.1	011	
33	70.5	810	22.4	22.8	30.8	011	
34	71.5	950	21.3	22.0	21.6	011	
35	72.5	287	24.7	23.5	23.1	011	
36	73.5	430	25.1	22.3	31.9	011	

NOTE:

(\*) REFER TO ATTACHED LETTER.  
(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

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CORE ANALYSIS AND INTERPRETATION

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL LIQUID SATURATION % PORE SPACE		PROBABLE PRODUCTION	REMARKS
				OIL	TOTAL WATER		
37	8674.5	346	23.6	29.7	32.6	OIL	
38	75.5	188	22.6	24.8	31.9	OIL	
5676.0-8694.0 LOST CORE							8694-8699 Weathered 5 hours before Analysis.
39	8694.5	6.5					4.4% Oil By Volume
40	95.5	0.0					4.6% Oil By Volume
41	96.5	10					5.2% Oil By Volume
42	97.5	20					6.7% Oil By Volume
43	98.5	8.1					5.7% Oil By Volume
8707.0-8714.0 LOST CORE							
44	8734.5	167	25.6	19.5	61.6		8734-8753 Weathered 20 hours before removal.
45	35.5	220	27.9	15.1	58.8		
46	36.5	413	28.3	13.8	54.6		
47	37.5	320	29.1	17.2	61.8		
48	38.5	3.1	24.5	19.2	60.2		
49	40.5	8.4	20.6	13.1	66.0		
50	41.5	306	19.1	24.1	54.6		
51	43.5	21	29.2	26.0	55.5		
52	44.5	255	29.1	19.3	49.2		
53	45.5	2.5					
54	48.5	7.4	21.7	17.1	53.0		
55	49.5	7.8	21.4	16.9	57.9		
56	50.5	14	23.7	21.1	49.7		
57	51.5	37	26.9	24.9	46.4		
58	52.5	28	27.4	26.2	47.1		
59	55.5	22	23.7	21.6	42.3		8755-8774 Weathered 8 hours before removal
60	58.5	44	23.4	16.2	44.9		
61	59.5	14	23.0	16.5	43.4		
62	60.5	13	21.2	15.1	52.5		
63	61.5	16					
64	64.5	15	26.1	19.1	45.5		
65	65.5	35	24.2	12.0	52.9		
66	66.5	5.0					4.0% Oil By Volume
67	67.5	1.6	25.3	15.4	52.9		
68	69.5	7.4					4.1% Oil By Volume

NOTE:

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CORE ANALYSIS AND INTERPRETATION

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL LIQUID SATURATION % PORE SPACE		PROBABLE PRODUCTION	REMARKS
				OIL	TOTAL WATER		
69	8770.5	0.0					4.0% Oil by Volume
70	74.5	14	20.4	16.7	49.0		(*)
71	75.5	13	22.2	25.7	44.6		(*)
72	76.5	22	23.6	19.1	47.5		(*)
73	77.5	8.1	22.4	18.7	52.2		(*)
74	78.5	7.6	23.5	70.8	52.0		(*)
75	80.5	6.7	23.5	19.1	48.6		(*)
76	82.5	18	23.3	19.7	49.0		(*)
77	83.5	6.3	24.4	15.6	52.1		(*)
78	84.5	16	25.6	17.6	52.4		(*)
79	85.5	5.5	26.3	11.3	52.9		(*)
80	86.5	18	21.8	13.3	64.2		(*)
81	87.5	7.4	24.2	13.6	50.0		(*)
82	88.5	8.0	23.8	19.3	48.3		(*)
83	91.5	6.0	24.2	19.5	49.6		(*)
84	97.5	11	23.1	13.9	42.9		(*)
85	98.5	1.0	20.8	21.6	51.9		(*)
86	99.5	3.7	21.8	13.8	56.9		(*)
8502.0-8610.0 LOST CORE							
87	8610.5	1.8	19.6	13.3	57.6		(*)
88	11.5	2.5					
89	12.5	1.5					
90	13.5	1.3	21.9	11.4	60.2		(*)
91	14.5	0.0					
92	15.5	3.3					
93	16.5	2.0	20.7	11.6	65.6		(*)
94	17.5	1.9					
95	18.5	1.4	19.8	0.0	75.3		(*)
96	19.5	6.1	20.1	0.0	73.6		(*)
97	20.5	3.7	21.3	8.0	64.2		(*)
98	21.5	4.8					
99	22.5	30	21.0	9.5	60.5		(*)
100	23.5	7.0					
101	24.5	6.6	23.0	13.1	54.1		(*)
102	25.5	6.7					
103	26.5	6.1					
104	27.5	19	22.3	10.8	55.2		(*)
105	28.5	12	24.1	11.6	49.3		(*)

NOTE:

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CORE ANALYSIS AND INTERPRETATION

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL LIQUID SATURATION % PORE SPACE		PROBABLE PRODUCTION	REMARKS
				OIL	TOTAL WATER		
106	329.5	11	23.9	13.0	51.1	(*)	
107	30.5	14	27.2	19.9	45.2	(*)	
108	31.5	11	22.9	14.0	51.9	(*)	
109	32.5	3.6	25.1	18.3	53.7	(*)	
110	33.5	10	23.4	12.6	53.0	(*)	
111	34.5	6.6	24.5	15.9	49.9	(*)	
112	35.5	4.6	22.3	12.6	62.3	(*)	
113	36.5	20	24.9	14.4	55.0	(*)	
114	37.5	5.8	23.8	14.3	55.0	(*)	
115	38.5	36	23.2	14.7	52.5	(*)	
116	39.5	7.6	24.6	15.1	47.3	(*)	
117	42.5	11	24.7	15.8	48.6	(*)	
118	45.5	4.3	24.5	13.5	55.8	(*)	
119	48.5	2.5					
120	50.5	1.9					
121	51.5	2.4					
122	52.5	1.7					
123	54.5	0.7					
124	56.5	2.2					
125	57.5	4.7					
126	58.5	0.0					

8866.0-8871.0 LOST CORE

NOTE:

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CORE SUMMARY AND CALCULATED RECOVERABLE OIL

CORE SUMMARY

FORMATION NAME	SESNOW				
DEPTH, FEET	8638.0-8676.0				
% CORE RECOVERY	100				
FEET OF PERMEABLE, PRODUCTIVE FORMATION RECOVERED	31.0				
AVERAGE PERMEABILITY, MILLIDARCS	379				
CAPACITY—AVERAGE PERMEABILITY X FEET PRODUCTIVE FORMATION	11749				
AVERAGE POROSITY, PERCENT	23.1				
AVERAGE RESIDUAL OIL SATURATION, % PORE SPACE	21.4				
GRAVITY OF OIL, °A.P.I.	23				
AVERAGE TOTAL WATER SATURATION, % PORE SPACE	34.6				
AVERAGE CALCULATED CONNATE WATER SATURATION, % PORE SPACE	27				
SOLUTION GAS-OIL RATIO, CUBIC FEET PER BARREL (1)					
FORMATION VOLUME FACTOR—VOLUME THAT ONE BARREL OF STOCK TANK OIL OCCUPIES IN RESERVOIR (1)					

CALCULATED RECOVERABLE OIL } Prediction dependent upon complete isolation of each division. Structural position of well, total permeal thickness of oil zone and drainage area of well should be considered.

BY NATURAL OR GAS EXPANSION, BBLs. PER ACRE FOOT (2)	(*)				
INCREASE DUE TO WATER DRIVE, BBLs. PER ACRE FOOT	(*)				
TOTAL AFTER COMPLETE WATER DRIVE, BBLs. PER ACRE FOOT (3)	(*)				

CORE LABORATORIES, INC.

Original Signed By  
**J. H. CAMPBELL**  
 J. H. Campbell,  
 Vice-President

NOTE:

- (\*) REFER TO ATTACHED LETTER.
- (1) REDUCTION IN PRESSURE FROM SATURATION PRESSURE TO ATMOSPHERIC PRESSURE.
- (2) AFTER REDUCTION FROM ORIGINAL RESERVOIR PRESSURE TO ZERO POUNDS PER SQUARE INCH.
- (3) RESERVOIR PRESSURE MAINTAINED BY WATER DRIVE AT OR ABOVE ORIGINAL SATURATION PRESSURE.
- (4) NO ESTIMATE FOR GAS PHASE RESERVOIRS.

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Chloride Determinations  
 Wide Water Associated Oil Company  
 Sesnon # 1-10 Well  
 Aliso Canyon Field  
 Los Angeles County, California

DEPTH - FEET	CHLORIDE PARTS PER MILLION IN FRESH WATER	CHLORIDE GRAINS PER GALLON IN FRESH WATER	SODIUM CHLORIDE GRAINS PER GALLON IN FRESH WATER
8638.5	19700	1149	1896
40.5	13000	758	1251
42.5	25000	1458	2408
44.5	19700	1149	1896
46.5	22600	1318	2175
48.5	17800	1038	1713
50.5	19300	1125	1856
52.5	20400	1189	1962
54.5	9850	574	947
64.5	12000	700	1155
67.5	25200	1469	2424
70.5	20000	1166	1924
73.5	19000	1108	1828
75.5	13000	758	1251
8748.5	6100	356	587
50.5	9000	525	866
52.5	6900	402	663
75.5	9780	570	941
77.5	9270	540	891
82.5	7460	435	718
85.5	7180	419	691
88.5	7350	429	708
97.5	4780	279	460
99.5	6080	354	584
8810.5	3940	230	380
19.5	7070	412	680
27.5	7600	443	731
28.5	9060	528	871
30.5	6680	389	642
33.5	7390	431	711
36.5	7110	415	685
39.5	9350	545	899

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

## DIVISION OF OIL AND GAS

Report on Test of Water Shut-off  
(FORMATION TESTER)No. T 1-46850Los Angeles 15, Calif. June 18, 1947Mr. R. S. Curl  
Los Nietos, Calif.Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Your well No. "Standard-Sasnon 1" 10, Sec. 28-29, T. 3 N., R. 16 W., S. B. B. & M.  
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off  
on June 12, 1947. Mr. Paul Betts, Inspector, designated by the supervisor,  
was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present  
W. Perkes, Engineer; H. V. Smith, Driller.

Shut-off data: 7 in. 23, 26, 29 lb. casing was <sup>re-</sup>cemented at 8612 ft. on June 10, 1947  
in 11" hole with 100 sacks of cement of which 14 sacks was left in casing.  
Casing record of well: 13-3/8" cem. 823'; 7" cem. 8612', W. S. O. *calc fill behind pipe = 7150'*

Reported total depth 8617 ft. Bridged with cement from xxx ft. to xxx ft. Cleaned out to 8617 ft. for this test.  
A pressure of 1500 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 8572 ft.  
A Johnston tester was run into the hole on 2-7/8 in. drill pipe, with 950 ft. of water cushion,  
and packer set at 8583 ft. with tailpiece to 8600 ft. Tester valve, with 3/8" bean, was opened at 3:45 p.m.  
and remained open for 1 hr. and 30 min. During this interval there was a fair, steady blow  
decreasing to no blow for 45 minutes; dead for the balance of the test.

INSPECTOR J. L. WHITE VISITED THE WELL FROM 9:45 P. M. TO 10:45 P. M., JUNE 8, 1947.  
AND MR. PERKES REPORTED:

1. An 11" rotary hole was drilled from 823' to 8612'.
2. On June 3, 1947, 7", 23, 26, and 29 lb. casing was cemented at 8612' with 500 sacks of cement.
3. Cement was drilled out of the 7" casing from 8572' to 8612', and a 6" rotary hole was drilled from 8612' to 8617'.
4. A Johnston tester was run into the hole on 2-7/8" drill pipe and packer set at 8575'.
5. The tester valve was opened at 6:20 p.m. and remained open 90 minutes. During this interval there was a weak, steady blow.

THE INSPECTOR NOTED:

1. When the drill pipe was removed, 3240' of slightly gassy, slightly oily, drilling fluid was found in the drill pipe above the tester, equivalent to 12.6 bbl.

The operator decided to recement.

INSPECTOR PAUL BETTS ARRIVED AT THE WELL AT 8:00 P. M., JUNE 12, 1947, AND MR. PERKES REPORTED:

1. On June 10, 1947, a cement retainer was set at 8555' and the 7" casing shoe at 8612' was recemented with 100 sacks of cement of which 86 sacks was squeezed away, at a final pressure of 3000 lb.
2. Cement was drilled out of the 7" casing from 8528' to 8612' and out of the hole from 8612' to 8617' (equivalent to 15 sacks).
3. A Johnston tester was run as noted above.

THE INSPECTOR NOTED:

1. When the drill pipe was removed, there was a net rise of 270' of fluid, consisting of 90' of medium, oily, drilling fluid, and 180' of thin, oily, drilling fluid was found in the drill pipe above the tester, equivalent to 1.4 bbl.
2. Water filtered from fluid sample taken from 30' above the bottom of the drill pipe tested 125 grains of salt per gallon.

R. D. BUSH, State Oil and Gas Supervisor

By (CONTINUED ON PAGE 2), Deputy



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

# DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

OR

Special Report on Operations Witnessed

No. T 1-46850

Page 2

TIDE WATER ASSOCIATED OIL COMPANY

Well No. "Standard-Sesnon 1" 10, Sec. ~~28~~ 29, T. 3 N., R. 16 W., S. E. B. & M.

3. The recording pressure bomb chart showed that the tester valve was open for the duration of the test.

The test was completed at 9:45 p.m.

THE SHUT-OFF IS APPROVED.

PWB:OH

*W*

cc- T. L. Wark  
Jos. Jensen  
Wm. E. Perkes (2)

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Messer Deputy



1015 West Olympic Boulevard  
Los Angeles 15, California  
April 15, 1947

Mr. H. S. Gurl, Agent  
Tide Water Associated Oil Company  
P. O. Box Y  
Los Nietos, California

Dear Sir:

This will acknowledge receipt of and thank you for your notice, dated April 8, 1947, stating that the correct location of well No. "Standard-Benson 1" 10, Sec. 28, T. 3 N., R. 16 E., S. B. B. & W., Aliso Canyon field, is as follows:

1670.63 feet S., and 7787.62 feet W. from Station #84

My records are being corrected accordingly.

Yours truly,

*EA Murrain*

Deputy Supervisor

cc - Mr. H. S. Gurl (2)  
Mr. T. L. Mark  
Mr. Jos. Jensen  
Mr. Ch. E. Perkes (2)

ES

Corrections Made as Follows:	
Page 114	✓
" 112	✓
" 111	✓
" 110	✓
Case	✓
Production Record	✓
Well Records	✓
Field Maps	18A No Change ✓
Map Book	4-16-47 ✓

*ANB*

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

RECEIVED  
APR 11 1947

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

Los Nietos, Calif. April 8 1947

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. Standard-Sesnon #1-10, Sec. 28 29, T. 3 N, R. 16 W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

Lease consists of Standard Sesnon #1 lease.

The well is 1670.68 feet ~~N. of S.~~ and 7787.62 feet ~~E. of W.~~ from Station #84  
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the ~~ground~~ derrick floor above sea level is approx. 2582 feet.

We estimate that the first productive oil or gas sand should be encountered at a depth of about \_\_\_\_\_ feet.

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
13-3/8"	54.5#	T& C J-55	2000*	Cemented
7"	23, 26, 29#	Speedtite J-55 N80	8450'	Cemented
5"	17.93#	Flush & Joint J-55	8700'	Landed

\* Will be set higher if no lost circulation encountered but not above 600'.

Well is to be drilled with ~~rotary~~ ~~tools~~ tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

Address P.O. Box "Y"

Los Nietos, Calif.

Telephone number Whittier 420 43

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

By R. S. Carl  
Agent

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

MAP	MAP BOOK	CARDS	BOND	114	121

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL AND GAS**

**Report on Proposed Operations**

No. P 1-43191

Los Angeles 14, Calif. March 18, 1947

Mr. R. S. Curl  
Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

"Standard-Sesnon 1"

Your proposal to drill Well No. 10,  
Section 29, T. 3 N., R. 16 W. S. B. & M., Aliso Canyon Field, Los Angeles County,  
dated Mar. 12, 1947, received Mar. 13, 1947, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES: 1670.68 7787.62

"The well is ~~1620.84~~ feet S. and ~~7783.56~~ feet W. from Station #84  
The elevation of the derrick floor above sea level is approx. 2632 feet.  
We estimate that the first productive oil or gas sand should be encountered at a depth of about \_\_\_\_\_ feet."

**PROPOSAL:**

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing	Weight	Grade and Type	Depth	Landed or Cemented
13-3/8"	54.5#	T&C J-55	2000*	Cemented
7"	23,26#, 29#	J-55 N-80 Speedtite	8500	Cemented
5"	17.9#	J-55, Flush Jt.	8850	Landed

\*Will be set higher if no lost circulation is encountered but not above 500'

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

**DECISION:**

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed.
3. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
4. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS
  - (a) To witness a test of the effectiveness of the 7" shut-off.
  - (b) To inspect the installed blowout prevention equipment before drilling below 2500',

cc - T. L. Wark  
Jos. Jensen  
Wm. E. Perkes (2)

CLB:ES

R. D. BUSH

State Oil and Gas Supervisor

Blanket bond.

By EA Musser Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS  
**RECEIVED**  
MAR 13 1947

DIVISION OF OIL AND GAS

037-00040

Notice of Intention to Drill New Well

LOS ANGELES, CALIFORNIA

This notice must be given and surety bond filed before drilling begins

16

Los Nietos Calif. March 12 19 47

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. "Standard-Sesnon #1"-10, Sec. ~~28~~ 29\*, T. 3 N <sup>P.W.B.</sup>

R. 16 W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

Lease consists of Sesnon #1 lease

The well is 1670.68 feet N. or S., and 7787.62 (Cor. Det. 4-15-47 es) feet E. or W. from Station #84  
~~1620.81~~ feet N. or S., and ~~7763.56~~ feet E. or W. from Station #84  
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is approx. 2632 feet.  
~~ground~~

We estimate that the first productive oil or gas sand should be encountered at a depth of about \_\_\_\_\_ feet.

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
13-3/8"	54.5#	T&C J-55	2000*	Cemented
7"	23, 26#, 29#	J-55 N-80 Speedtite	8500	Cemented
5"	17.9#	J-55, Flush Jt.	8850	Landed

\* Will be set higher if no lost circulation is encountered but not above 500'

Well is to be drilled with rotary tools.  
~~rotary~~

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

Address Box "Y" Los Nietos, Calif.

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

Telephone number 420-43

By R. J. Carl Agent

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
18A.	3-13-47		let subject	End	
	P.W.B.				

\*Correction letter 8-26-54. my